Small Residential Rooftop Solar PV Systems ≤ 10 kW
Express Eligibility Checklist

GENERAL REQUIREMENTS

A. System size is 10 kW AC CEC rating or less
   Y ☐ ☐ N
B. System is roof-mounted on existing permitted one- or two-family dwelling
   or accessory structure
   Y ☐ ☐ N
C. System will not exceed the maximum legal building height
   Y ☐ ☐ N
D. No other existing systems are on the roof
   Y ☐ ☐ N
E. Development Services permit application is completed and attached
   Y ☐ ☐ N
F. Solar PV Plan and supporting documentation is completed and attached
   Y ☐ ☐ N
G. Please indicate the type of electrical plans being submitted
   ☐ Std Micro ☐ Std Central ☐ Custom

ELECTRICAL REQUIREMENTS

A. Using existing service panel rated 100 AMPS or greater
   Y ☐ ☐ N
B. No additional load panel is proposed.
   Y ☐ ☐ N
C. No battery storage system is proposed
   Y ☐ ☐ N
D. System is interconnected to a single-phase AC service panel of nominal 120/220
   Vac with a bus bar rating of 225 A or less
   Y ☐ ☐ N
E. System is connected to the load side of the utility distribution equipment and the
   sum of the ampere ratings of overcurrent devices on circuits supplying power to a
   busbar or conductor does not exceed 120% of the rating of the busbar or
   conductor
   Y ☐ ☐ N
F. Proposed installation is not a line side tap
   Y ☐ ☐ N
G. The service panel is not center fed
   Y ☐ ☐ N
H. The proposed circuit conductors are #10 AWG and less than or equal to 100-feet
   Y ☐ ☐ N
I. All wiring system and equipment are located outside of the premise
   Y ☐ ☐ N
J. Metallic cold-water grounding for the system will be provided within 5-feet of
   water service entry to the residence and shall be accessible
   Y ☐ ☐ N

FIRE SAFETY REQUIREMENTS

A. A diagram of the roof layout of all panels, modules, clear access pathways and
   approximate locations of electrical disconnecting means and roof access points
   are completed and attached.
   Y ☐ ☐ N
B. System is a Fire Classification “C” rating
   Y ☐ ☐ N
C. All required markings and placards will be provided with engravable plastic or
   phonic resin plates
   Y ☐ ☐ N
D. System diagram will be placed at the main panel
   Y ☐ ☐ N

STRUCTURAL REQUIREMENTS

ROOF CHECKS

A. Visual Review/Contractor’s Site Audit of Existing Conditions:
   1) Is the roof a single roof without a reroof overlay?
      Y ☐ ☐ N
2) Does the roof structure appear structurally sound, without signs of alterations or significant structural deterioration or sagging as shown in Figure 1?*
   □ Y □ N

B. Roof Structure Data:
   1) Measured roof slope (e.g. 6:12): ___ :12
   2) Type of roof framing (rafter or Manufactured truss): □ Rafter □ Truss
   3) Measured rafter spacing (center-to-center): "
   4) Measured rafter size (e.g. 13/4 x 33/4, not 2x4): ___" x ___"
   5) Measured rafter horizontal span (see Figure 4*): ___' - ___" 
   6) Horizontal rafter span per Table 2*: ___' - ___"
   7) Is measured horizontal rafter span less than Table 2* span? □ Y □ N

**SOLAR ARRAY CHECKS**

A. Flush-mounted Solar Array:
   1) Is the plane of the modules (panels) parallel to the plane of the roof? □ Y □ N
   2) Is there a 2" to 10" gap between underside of module and the roof? □ Y □ N
   3) Modules do not overhang any roof edges (ridges, hips, gable ends, eaves)? □ Y □ N
   B. Do the modules plus support components weigh no more than 4 psf for photovoltaic arrays? □ Y □ N
   C. Does the array cover no more than half of the total roof area (all roof planes)? □ Y □ N
   D. Are solar support component manufacturer's project-specific worksheets, tables completed? □ Y □ N
   E. Is a roof plan of the module and anchor layout attached? See Figure 2.* □ Y □ N
   F. Downward Load Check (Anchor Layout Check):
      1) Proposed anchor horizontal spacing. See Figure 2.* ___' - ___"
      2) Horizontal anchor spacing per Table 1.* ___' - ___"
      3) Is proposed anchor horizontal spacing equal to or less than Table 1* spacing? □ Y □ N
   G. Wind Uplift Check (Anchor Fastener Check):
      1) Anchor fastener data (see Figure 3*):
         a. Diameter of lag screw, hanger bolt or self-drilling screw: ___"
         b. Embedment depth of rafter: ___"
         c. Number of screws per anchor (typically one):
         d. Are 5/16" diameter lag screws with 2.5" embedment into the rafter used, OR does the anchor fastener meet the manufacturer's guidelines? □ Y □ N

*Refer to the website at http://www.lbds.info/solarpermits.

**SUMMARY:**

□ A. These criteria are intended for express solar permitting process by checking "Y" to all above questions.
□ B. If any items are checked "N," revise design to fit within Eligibility Checklist, otherwise permit application may go through standard process.

Job Address: ____________________________ Permit #: ____________________________
Contractor/Installer: ______________________ License # & Class: ______________________
Signature: ____________________________ Date: _________ Phone #: ______________________

To request this information in an alternative format or to request a reasonable accommodation, please contact the issuing department at longbeach.gov/lbds and 562.570.3807. A minimum of three business days is requested to ensure availability; attempts will be made to accommodate request with shorter notice.