

SLEE'S SUMMIT M | S S O U R | Photovoltaic System Permit Application and Checklist - For Residential Systems* ≤ 15 kW - For Residential Systems* ≤ 15 kW

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|---------------------------------------------------------------------------------|-----------------|----------------|-----------|-------------------------------------|
| Valuation: \$ 8,400 (including parts & | labor) | | | |
| Project Address: 130 NW Joshua Dr Lee's Summit MC |) 64081 | | | |
| Applicant's Company Name: The Solar Guys | | Address: | 6114 MO | 9 Parkville MO, 64152 |
| Applicant's Contact: Michelle Wiederin | Phone: _ | 913.424.2112 | _Email: | support@solarguysusa.com |
| Installing Contractor's Company Name: The Sol | | | | |
| Installing Contractor's Contact: Lucas Borntreger | | | | |
| I, Lucas Borntreger have read the have been provided. I understand that omissic | informatio | on below and | acknow | rledge that all required documents |
| process. | 7113 111 (110 1 | required inite | , mation | will result in delays in the review |
| Signature: Lucas Borntreger | | | | Date: <u>8.25.25</u> |
| How to complete this permit application: | | | | |
| A . Fill out basic permit form per jurisdiction | n (this will | either be an | electrica | al or a building permit form). |

- B. Complete Photovoltaic System Application and Checklist.
- C. Include site plan showing location of major components on the property. This drawing need not be exactly to scale, but it should represent relative location of components and show elevation. The site plan must also show compliance with International Fire Code minimum access and pathways. Additionally, include a photo that shows the proposed access point to verify compliance with IFC 605.11.3.1.
- D. Include electrical diagram showing PV array configuration, wiring system, overcurrent protection, inverter, disconnects, required signs, and AC connection to building.
- E. Include specification sheets and installation manuals (if available) for all manufactured components including, but not limited to PV modules, inverter(s), combiner box, disconnects, and mounting system.
- F. Inquire with the jurisdiction to find out the number of copies of components A-D should be submitted.

Steps to completing a photovoltaic project:

- Step 1 | Concurrently submit this permit application (see all necessary components, above) and the Net Metering/Interconnection Application to electric utility.
- Step 2 | Work can begin after the jurisdiction's permit is approved. Note: Some contractors will not begin work until the Net Metering/Interconnection Application is approved by the utility, although this is not a requirement.
- Step 3 | Notify jurisdiction when ready for inspection.
- Step 4 | Notify electric utility when inspection is passed.
- Step 5 | Electric utility will schedule its inspection and meter exchange.
- Step 6 | Electric utility will provide Permission to Operate (PTO)



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Structural Review of PV Array Mounting System:

Roof Information:

This section is for evaluating roof structural members that are site built. This includes rafter systems and site built trusses. Manufactured trusses and roof joist systems, when installed with proper spacing, meet the roof structure requirements as well.

| 1. | Is the array to be mounted on a defined, permitted roof structure? Yes No | | | | | | | | | |
|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|
| | | | | | | | | | | |
| 2. | Roof Age: Structure: \square < 5 yrs \square 5-10 yrs \square 20-30 yrs \square 30+ yrs | | | | | | | | | |
| | Covering: \square < 5 yrs \square 5-10 yrs \square 20-30 yrs \square 30+ yrs | | | | | | | | | |
| 3. | Is the roofing type lightweight? Yes-Composition (Yes = composition, lightweight masonry, metal, etc) (No = heavy masonry, slate, etc) | | | | | | | | | |
| | | | | | | | | | | |
| 4. | | | | | | | | | | |
| 5. | Provide method and type of weatherproofing roof penetrations (e.g. flashing, caulk) | | | | | | | | | |
| 6. | Roof Construction: Rafters Trusses Other: | | | | | | | | | |
| 7. | Describe rafter or truss system. | | | | | | | | | |
| | a. Rafter Size: 2 x 6 inches | | | | | | | | | |
| | b. Rafter Spacing: inches | | | | | | | | | |
| | c. Maximum unsupported span: feet, inches | | | | | | | | | |
| 8. | Are rafters or trusses in good condition, i.e. have not been adversely altered and no visible | | | | | | | | | |
| | damage? | | | | | | | | | |
| 9. | | | | | | | | | | |
| 10. | O. Are the rafters or trusses made out of non-standard materials? Yes No | | | | | | | | | |
| 11. Have the rafters or trusses been modified in any way (e.g. drilled holes, etc.)? Yes No | | | | | | | | | | |
| Need a structural engineer's stamp: If you answered "No" to question #8 or "Yes" to any of the | | | | | | | | | | |
| questions numbered 9-11, a structural engineer's stamp will be required by the local jurisdiction issuing | | | | | | | | | | |
| 9465 | | | | | | | | | | |



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(Structural Review of PV Array Mounting System—continued:)

Mounting System Information:

This section provides information on how the PV modules will be mounted to the roof. It is very important to have enough attachment points to adequately spread the dead load across as many roof-framing members as needed so that the point loads created at attachment points account for additional snow load (the Kansas City region has a 20 psf ground snow load).

| 12. | | the mounting structure an engineered product designed 8" gap beneath the module frames? ☐ Yes ☐ No | d to mount P | V modules wi | th no more than | | | | |
|--------|---------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|----------------------------|--|--|--|--|
| will b | e r | a structural engineer's stamp: If you answered "No": required by the local jurisdiction issuing the permit. Iver detail as well as a framing plan if strengthening the | Aust include | design for up | olift including system | | | | |
| 13. | Fill | ll out information on the mounting system below: | | | | | | | |
| | a. | Mounting System Manufacturer Ironridge Proc | duct Name | & Model #_ | <u>QM-HUG-</u> 01-B1 | | | | |
| | b. | . Total Weight of PV Modules and Rails | | lbs | | | | | |
| | C. | Total Number of Attachment Points34 | | | | | | | |
| | d. | . Weight Per Attachment Points (b÷c) _33.01 | | lbs | | | | | |
| | e. | Maximum Spacing Between Attachment Points of | on a Rail | 4 | inches. <i>See product</i> | | | | |
| | | manual for maximum spacing allowed based on | maximum | design wind | speed. <u>To ensure</u> | | | | |
| | | proper weight distribution: For each successive rail, attachment points should occur on rail | | | | | | | |
| | ends and then should be staggered based on 16" or 24" on center rafter spacing. | | | | | | | | |
| | f. | Total Surface Are of PV Modules (square feet) ⁶⁰ | 15.1 sq ft | | | | | | |
| | g. | Distributed Weight of PV Module on Roof (b÷f) _ | 2.7 psf | | lbs/ft² | | | | |
| | h. | . Mounting Frame to Rafter Framing: \qed | Self-Ballast | ted 🗆 🛭 | Penetrating | | | | |
| | | If penetrating, please provide for fasteners: | | | | | | | |
| 14. 1 | Гуре | pe: Size: Nun | mber: | | | | | | |
| 9 | Spac | acing: inches | | | | | | | |
| | | ditionally, please attach a cross-section detail that shows | s rafter size, s | pacing, numb | er of attachment points, | | | | |

Electrical Review of PV System (Calculations for Electrical Diagram)

In order for a PV system be processed using this application, the following must be true:

- PV modules, utility-interactive inverters, and combiner boxes are identified for use in PV systems. 1.
- 2. The PV array is composed of four(4) series strings or less per inverter.
- The AC interconnection point is on the load side of service disconnecting means (690.64(B)) 3.
- 4. A standard electrical diagram can be used to accurately represent the PV system.