**Solar PV Post Evaluation Checklist**

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| **PROJECT INFORMATION**  |
| **Property Address:** |   |
| **Job# or Client ID:** |  |
| **Inspector Printed Name:** |  |
| **Inspector QCI Certification #:** |  |
| **Inspection Date:** |  |
| **Local code inspection(s):** **(if applicable)** | Permit #\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date Passed \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Permit #\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date Passed \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

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| **ENERGY AUDIT INFORMATION** |
| Was an energy audit performed on this dwelling that included this installation? | ☐ Yes ☐ No |
| If yes, was the measure Savings to Investment (SIR) less than 1? | ☐ Yes ☐ No ☐N/A |

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| **EQUIPMENT INFORMATION** |
| PV Module Manufacturer: |   |
| PV Module Model #: |   |
| PV Module Information  |   # of panels\_\_\_\_\_       |
| Installed Capacity: | Kw\_\_\_\_    or           BTUs/hr. \_\_\_\_\_ |
| Panel Location (e.g., roof, wall): |  |
| Orientation (e.g., S, SW): |  |
| Tilt (If applicable) (Horizontal = 0):  |  |
| Azimuth angle (facing south = 0, east – positive): |  |
| PV system warranty is provided? | Warranty Terms:  |
|  | Shortest warranty portion of system (yrs/mo): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| Inverter Capacity (W or Kw): |  |
| Inverter Manufacturer: | Inverter is warrantied (recommended 10 years minimum). |
| Inverter Model: |  |
| Number of Inverters: |  |
| Rack Manufacturer: |  |
| Rack Model:  |  |
| PV System Size Rating (STC DC/AC inverter capacity) | \_\_\_\_\_\_DC; \_\_\_\_\_\_\_AC |
| COMMENTS: |  |

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| **INSTALLATION** |
| **Yes** | **No** | **N/A** |  | **Note** |
|   |   |   | Solar PV system is installed per the work order/invoice |   |
|  |  |  | Solar PV system is installation per manufacturer instructions and design documentation |  |
|  |  |  | Solar PV system meets minimum requirements set forth in [SWS](https://sws.nrel.gov/spec/005011) |  |
|  |  |  | Any building insulation disturbed during installation is restored to existing R-value or better |  |
|  |  |  | Installation penetrations of the building shell are weatherproof and airtight |  |
|  |  |  | Structure fire resistance is maintained as required by AHJ |  |
|  |  |  | Materials used outdoors are UV-resistant and listed for outdoor use |  |
|  |  |  | Dissimilar metals are electrically isolated to avoid galvanic corrosion |  |
|  |  |  | Components, including inverter, are located to allow access, and are adequately protected |  |
|  |  |  | Equipment, conduits, and boxes are all labeled |  |
| COMMENTS: |  |

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| **PERFORMANCE** |
| **Yes** | **No** | **N/A** |  | **Note** |
|   |   |   | Estimated annual kWh production: \_\_\_\_\_\_\_\_kWh |   |
|  |  |  | The system is performing as designed |  |
|  |  |  | Interconnection agreement has been signed by utility and the system is live/grid connected (if grid connection was intended) |  |
|  |  |  | Installer documentation or inspector field measured: Conductor insulation test using a megaohm meter on all home-run wiring to ensure no leakage currents to earth (Pos-to-GND and Neg-to-Gnd resistance > 1 megaohms) |  |
|  |  |  | Installer documentation or inspector field measured: Open-circuit voltage (Voc) and polarity of each string measured and documented. Compare voltage measurement to reference value |  |
|  |  |  | Installer documentation or inspector field measured: Grounding resistance is < 25 Ohms |  |
|  |  |  | Installer documentation or inspector field measured: Short-circuit current (Isc) of each string measured and documented. Compare current measurement to reference value |  |
|  |  |  | Installer documentation or inspector field measured: Inverter’s internal power meter and display using independent meters confirmed. (Once complete, inverter-displayed power readings can be used for subsequent reporting.) |  |
|  |  |  | Installer documentation or inspector field measured: System output under actual conditions is within 5% of expected, calculated performance. Actual power delivery could be from faceplate of inverter or separate power measurement |  |
|  |  |  | Installer documentation or inspector field measured: PV string maximum/minimum voltages are confirmed to be within inverter specifications |  |
|  |  |  | Check inverter display and operational indicators for status and any error messages; Record operating status |  |
|  |  |  | PV array maximum DC power has been confirmed to be within inverter specifications |  |
| COMMENTS: |  |

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| **ELECTRICAL** |
| **Yes** | **No** | **N/A** |  | **Note** |
|  |  |  | Wiring is completed (no loose connections or damaged wires) and wires are supported to prevent damage, not located in trafficked walking area, and not in contact with pooling water |  |
|  |  |  | Inspect connectors (plugs) between modules and other wiring for tightness and any sign of overheating (plastic deformed or shiny) |  |
|  |  |  | AC and DC disconnects specified, labeled, and location easily accessible |  |
|  |  |  | Metallic surfaces that might become energized are properly grounded |  |
| COMMENTS: |  |

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| **CLIENT EDUCATION** |
| **Yes** | **No** | **N/A** |  | **Note** |
|  |  |  | Occupant(s), owner(s), and/or maintenance staff have been provided with user’s manual, warranty information, installation instructions, and installer contact information |  |
| COMMENTS: |  |

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| **ADDITIONAL COMMENTS** |
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Signature of Inspector Date