



Solar Photovoltaic Inspections

For solar projects, there can be up to three inspections.

- For any solar project that requires putting electric work underground or a service upgrade, there will need to be a rough electrical inspection before the wiring is covered.
- All solar projects will require a final electrical and a final building inspection

FINAL INSPECTION CHECKLIST ELECTRIC AND BUILDING G=GROUND, R=ROOF, B=BOTH

B	PV disconnects and circuit breakers are in the open position and ready for safe inspection.
B	All work done in a neat and workmanlike manner.
B	PV module model number, quantity and location according to the approved plan.
B	Array exposed cables are properly secured, supported, and routed to prevent physical damage.
B	Conduit installation according to NEC 690.31(G)
B	Firefighter access according to approved plan.
R	Roof-mounted PV systems have required fire classification (IBC 1505.9 or IRC R902.4).
R	Grounding/bonding of rack and modules according to the manufacturer's installation instructions.
B	Equipment installed, listed and labeled according to the approved plan.
B	For grid-connected systems, inverter is marked "utility interactive" and/or documentation shows that inverter meets utility interconnection requirements.
B	Conductors, cables, and conduit types, sizes and markings according to the approved plans.
B	Overcurrent devices are the type and size according to the approved plan.
B	Disconnects according to the approved plan and properly located as required by the NEC.
B	Inverter output circuit breaker is located at opposite end of bus from utility supply at load center and/or service panelboard. If panel center-fed, inverter output circuit breaker can be at either end of busbar NEC 705.12(b)
B	PV system markings, labels and signs according to the approved plan.

- B** | Connection of the PV system to the grounding electrode system according to the approved plan.
- B** | Access and working space for operation and maintenance of PV equipment such as inverters, disconnecting means and panelboards (not required for PV modules) NEC 110.26
- B** | Rapid Shutdown System is installed and operated according to the approved plan.
- G** | Ground mount array is stable, installed correctly. Zoning setbacks confirmed as adequate.
- B** | Smoke and Carbon Detectors are functioning properly
- G** | Cold water meter checked

ROUGH ELECTRIC CHECKLIST

	Checking the location of the conduit matches the plans
	Checking the conduit couplings
	Checking the depth of the conduits is appropriate