Basic Solar PV Plan Review Checklist

To verify the following during the review of the permit plan application, the plan must include at a minimum:

1. Site plan showing location of the array and relative location of major components
2. 1-line electrical diagram that shows PV array configuration, conductors and conduit, overcurrent protection, inverter(s), disconnects, point of utility interconnection
3. Specification sheets showing listing: Modules, inverter, racking system
4. Installation manuals as needed

☐ The location of the roof top array meets requirements for access pathways and fire setbacks as required in local code: International fire code (IFC 605.11) or NFPA 1 (section 11.12).

☐ The quantity and spacing of array structural attachments are appropriate according to mounting system manufacturer’s installation instructions and appropriate for existing roof framing members.

☐ The attachments’ weather sealing detail is correct according to building code IRC section R909.3 and product installation instruction.

☐ AC and DC conductor size and type are correct in accordance with NEC Chapter 3, 690.7, 690.8, 690.31, 690.35, and 705.60.

☐ The module/mounting system combination achieves the required fire classification.

☐ Equipment grounding/bonding is in accordance with UL 1703, UL 2703, NEC 690.43 and 690.45.

☐ The location and rating of the PV system over-current protective device is in accordance with NEC 690.8, NEC 705.12, and NEC 705.60.

☐ All required disconnecting means, types, and locations are specified on plan in accordance with NEC 690.13 – 690.17 and/or utility.

☐ The plan includes description of all marking and labeling in accordance with IFC 605.11 or NFPA 1 section 11.12, NEC 690.17, NEC 690.31, NEC 690.53, and NEC 690.56.

☐ The existence of a rapid shutdown system (RSS) in accordance with NEC 690.12.