SOLAR PHOTOVOLTAIC SYSTEMS PLAN CHECK LIST

THE FOLLOWING ITEMS HAVE BEEN COMPLIED WITH: YES  NO

This system is a pre-approved photovoltaic system.

ARTICLE 690—SOLAR PHOTOVOLTAIC SYSTEMS

A. GENERAL

690-4. Installation.
1. Conductors of Different Systems. Photovoltaic source circuits and photovoltaic output circuits shall not be contained in the same raceway, cable tray, cable, outlet box, junction box, or similar fitting as feeders or branch circuits of other systems.

2. Module Connection Arrangement. A conductor to a module or panel shall be so arranged that removal of a module or panel from a photovoltaic source circuit does not interrupt a grounded conductor to another photovoltaic source circuit.

3. Equipment. Inverters or motor generators shall be identified for use in a solar photovoltaic system.

690-5. Ground Fault Detection and Interruption.
1. Roof mounted photovoltaic arrays located on dwellings shall be provided with ground-fault protection to reduce fire hazard. The ground-fault protection circuits shall be capable of detecting a ground fault, interrupting the fault path, and disabling the array.

B. CIRCUIT REQUIREMENTS

690-7. Maximum Voltage.


C. DISCONNECTING MEANS

690-13. All Conductors.
1. Means shall be provided to disconnect all current-carrying conductors of a photovoltaic power source from all other conductors in a building or other structure. [see exception]

1. Means shall be provided to disconnect equipment, such as inverters, batteries, charge controllers, and the like, from all ungrounded conductors of all sources. If the equipment is energized from more than one source, the disconnecting means shall be grouped and identified.

690-16. Fuses.
1. Disconnecting means shall be provided to disconnect a fuse from all sources of supply if the fuse is energized from both directions and is accessible to other than qualified persons. Such a fuse in a photovoltaic source circuit shall be capable of being disconnected independently of fuses in other photovoltaic source circuits.

690-17. Switch or Circuit Breaker.
1. The disconnecting means for ungrounded conductors shall consist of a manually operable switch(es) or circuit breaker(s) [1] located where readily accessible, [2] externally operable without exposing the operator to contact with live parts, [3] plainly indicating whether in the open or closed position, and [4] shall have an interrupting rating sufficient for the normal circuit voltage and current that is available at the line terminals of the equipment. Where all terminals of the disconnecting means may be energized in the open position, a warning sign shall be clearly legible and shall read substantially: "WARNING—ELECTRIC SHOCK—DO NOT TOUCH TERMINALS ENERGIZED IN OPEN POSITION."

690-18. Disablement of an Array.
1. Means shall be provided to disable an array or portions of an array.
F. MARKING

G. CONNECTION TO OTHER SOURCES

H. STORAGE BATTERIES

ARTICLE 480—STORAGE BATTERIES

WEIGHT OF PANELS ON ROOF

ATTACHMENT OF PANELS

SPECIAL INSTRUCTIONS TO INSPECTORS

1. The following special instructions are intended to help the inspector during the field inspection of the solar equipment: