

# Required Submittals for Solar Panel Systems

## Type of Solar System Being Proposed:

### A. Photovoltaic \_\_\_\_\_

Type of Inverter:

- \_\_\_\_\_ Grid Tie Inverter: PV System tied directly to the electrical grid (Remote Disconnect Required for Fire Personnel)
- \_\_\_\_\_ Off Grid Inverter: PV System is stand alone or off electrical grid (Remote Disconnect Required)
- \_\_\_\_\_ On/Off Grid Inverter: PV is tied to the electrical grid and has battery backup (Remote Disconnect Required)

### B. Thermal: \_\_\_\_\_

## The Location of Solar Panel System:

### A. \_\_\_\_\_ Ground Mounted

(Provide 4 copies of the site plans showing the distances to all buildings, and the set-backs to all property lines, and location of well and septic.)

### B. \_\_\_\_\_ Roof Mounted

(Provide a plan showing the location that the panels are installed on the roof following the latest edition of International Fire Code requirements.

## Required Submittals To Be Include With The Construction Drawings (Item 2.B. Previous page):

1. Provide a copy of the complete cut-sheets of the system to be installed.
2. Provide wiring diagrams of the system showing the interior/exterior locations of the automatic disconnect for COM ED and the remote disconnect for fire department. These disconnects are to be marked per the 2011 NEC requirements. Indicate the locations of the plaques and directories required per the 2011 NEC requirements (Article 690 and 705).
3. Indicate if the system contains an automatic disconnect if the grid system loses power. If the system contains batteries it will have to have a remote disconnect, accessible by the fire department, to prevent back-feeds to the rest of the electrical system during an emergency.
4. Provide a copy of the application for the required Interconnect Agreement from COM ED (Appendix B). <https://www.comed.com/customer-service/rates-pricing/interconnection/Pages/transmission.aspx>
5. Provide a letter from the servicing fire department that they have reviewed and approved the installation of the system per their ordinances. The fire department should also give their approval of any required remote disconnects.
6. Provide a floor plan of the location the electrical panel/s will be installed in the structure or a utility room.
7. Provide the location of the new wiring for the panels. Indicate whether the wiring is on the exterior or interior of the structure and that it will be installed per the 2011 NEC.
8. Does this installation contain a storage battery system? If it does, supply the installation requirements for the batteries and the location of the batteries per the 2012 IBC/IRC.
9. For a roof mounted system, provide a review of the existing structure, the panels, and the panel anchorage by a State of Illinois licensed architect or structural engineer. This review is to be based on the requirements of the 2012 IBC / 2012 IRC (which every is applicable)