

	City of Casa Grande Development Center Policies & Procedures	Effective Date: February 2, 2015
	Title: Solar System Inspections	Date Reviewed: April 3, 2015
		Department of Primary Responsibility: Building Safety
		Policy Number: DC- PP - 005 - 02

With the adoption of the 2012 International Codes and the 2011 National Electric Code there have been some major changes in the installation and inspection of PV systems. The biggest changes are the fire code requirements. Listed below are the new required inspections.

Residential Solar Photovoltaic System Inspections
All residential inspections done by the Building Inspectors

- 1. Pre-panel Inspection:** To be made after the racking has been installed, all equipment, conduit, and wiring are installed per the design, and all equipment, attachments or supporting structures is per plans but before any panels are installed.
- 2. Electrical Service Inspection:** If modifications are made to the SES. Made after the electrical modifications are complete, code compliant and ready to have the meter re-installed.
- 3. Final Inspection: combines Building and Fire Final Inspections:** To be made after the installation is complete per the drawings, in compliance with the building, fire, & electrical codes, and ready to connect to the electrical grid.

Commercial Solar Photovoltaic System Inspections
Commercial inspections are done by Building & Fire Inspectors as required.

- 1. Solar Foundation Inspection: For ground mounted systems** to be made after footing/foundations are dug, free of debris, reinforcing steel & bolts are in in place and before any concrete is poured.
- 2. Pre-panel Inspection:** To be made after the racking has been installed, all equipment, conduit, and wiring are installed per the design, and all equipment, attachments or supporting structures is per plans but before any panels are installed.
- 3. Fire Rough Inspection:** To be made after the panels are installed so that the required Fire Department safety access areas can be inspected. (2012 International Fire Code Section 605.11 requirements)
- 4. Solar Electrical and PV Panel Inspection (Building):** To be made after all panels are installed, grounding and bonding are complete, PV panels match drawings, inverters, disconnects and other equipment are installed per plans.
- 5. Electrical Service Inspection (Building):** To be made after the electrical modification have been made to the SES, complete, code compliant and ready to have the meter re-installed.
- 6. Fire Final Inspection:** To be made after all installation is complete per the drawings, in compliance with the fire code and ready to be connected to the electrical grid.
- 7. Building Final Inspection:** To be made after the installation is complete per the drawings, in compliance with the building and electrical codes, and ready to connect to the electrical grid.

Solar Water Heating System Inspections

- 1. Pre-panel Inspection:** To be made after the racking has been installed, all equipment, conduit, piping, tanks, pumps, and wiring are installed per the design, and all equipment, attachments or supporting structure is per design plans but before any panels are installed.
- 2. Solar Electrical and Panel Inspection:** To be made after all panels are installed, panels match drawings, pumps, electrical disconnects, piping, pumps, valves, and other equipment are installed per plans.
- 3. Final Inspection:** To be made when the installation is complete per the drawings & installation instructions, in compliance with the codes, tested, and operating properly.