

# NFPA Document Proposal Form

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1. (a) NFPA Document Title ROP A2013 NFPA No. & Year NFPA 70 2014

(b) Section/Paragraph 4-253; 690.12

2. Proposal Recommends (check one): ☐ new text ☒ revised text ☐ deleted text

3. Proposal (include proposed new or revised wording, or identification of wording to be deleted): [Note: Proposed text should be in legislative format; i.e., use underscore to denote wording to be inserted (inserted wording) and strike-through to denote wording to be deleted (~~deleted wording~~).]

690.12 PV Arrays on Buildings Response to Emergency PV Source Circuit Shutdown.  
For PV Systems installed on roofs of buildings, ~~photovoltaic~~ PV source circuits shall ~~be deenergized~~ not exceed a maximum voltage of 80V from all sources within 10 seconds of when ~~emergency~~ a shutdown is initiated. ~~or when the PV power source disconnecting means is opened. When the source circuits are deenergized, the maximum voltage at the module and module conductors shall be 80 volts.~~

4. Statement of Problem and Substantiation for Proposal: (Note: State the problem that would be resolved by your recommendation; give the specific reason for your Proposal, including copies of tests, research papers, fire experience, etc. If more than 200 words, it may be abstracted for publication.)

The current definition of the PV source circuit affects the wording of this section. The PV source circuit, as defined in 690.2, currently starts at the PV module junction box and goes to the first common connection point. The last sentence is confusing as it is redefining the PV source circuit as starting at the "module conductor" and not the PV module. As modified the 80V limit would apply to the PV source circuit as currently defined. In practice the PV module or parts of the PV string would have to be isolated to get down to the 80V limit and anything down stream of the isolation point in the string would be deenergized.

"Emergency shutdown" is not defined and could require the addition of some kind of expensive failsafe emergency system by an AHJ. It is better just to reference "shutdown."

"PV power source" is undefined and ambiguous. Is the PV power source the PV modules, storage battery, or grid? I can make a good case for any of them and so will some AHJ.

As currently written the proposal would render multimode PV systems useless as the "or" clause would require the system to shutdown if disconnected from the grid.

Based on the modifications above the key defining factor for having the PV source circuit shutdown for all systems would be a generic shutdown procedure. The shutdown could be a signal to a DC-DC converter on a module, it could be shutting down the inverter, or it could be disconnecting/loss of grid power. It would be left up to the installer and AHJ and would allow a shutdown system that did not compromise the operation of multimode inverters.

## 5. Copyright Assignment

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