

FORM FOR PROPOSAL FOR 2014 NATIONAL ELECTRICAL CODE®

INSTRUCTIONS — PLEASE READ CAREFULLY

Type or print **legibly** in **black** ink. Use a separate copy for each proposal. Limit each proposal to a **SINGLE** section. All proposals **must be received by NFPA by 5 p.m., EST, Friday, November 4, 2011**, to be considered for the 2014 National Electrical Code. Proposals received after 5:00 p.m., EST, Friday, November 4, 2011, will be returned to the submitter. If supplementary material (photographs, diagrams, reports, etc.) is included, you may be required to submit sufficient copies for all members and alternates of the technical committee.

For technical assistance, please call NFPA at 1-800-344-3555.

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***If you wish to receive a hard copy, a street address **MUST** be provided. Deliveries cannot be made to **PO** boxes.

Please indicate organization represented (if any) PV INDUSTRY FORUM

1. Section/Paragraph 690.9(A)

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~~).]

Add the following paragraph to 690.9(A) before the Exceptions.

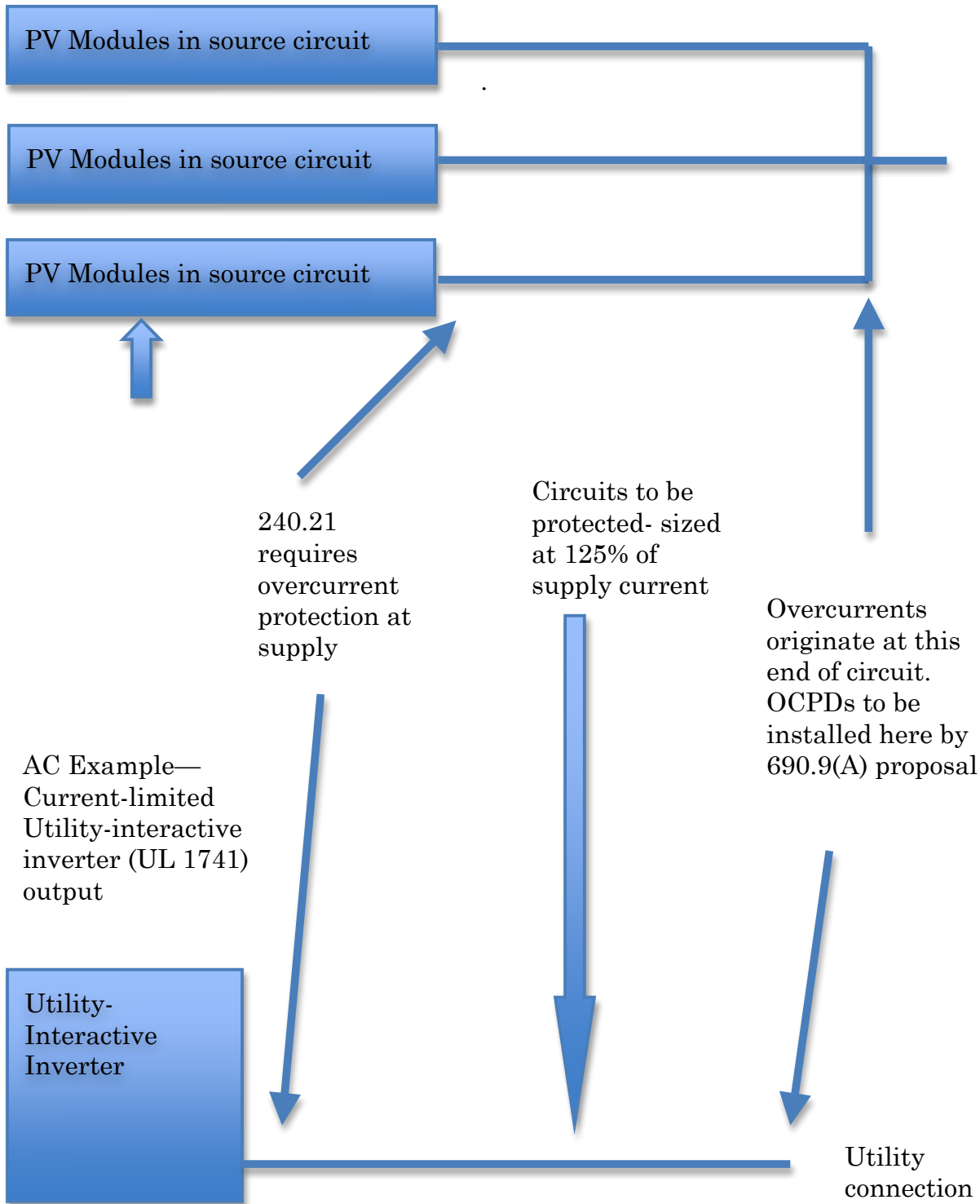
Circuits, either ac or dc, connected to current limited supplies (e.g. PV modules, ac output of utility-interactive inverters) and also connected to sources having significantly higher current availability (e.g. parallel strings of modules, utility power) shall be protected from overcurrents at the source of overcurrents that can damage the circuit.

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.)

For circuits supplied by current limited sources, Section 240. gives misleading requirements with respect to the location of overcurrent protection for the circuit. The overcurrent protection must be located where the overcurrents can originate that might damage the circuit, not at the supply for the circuit which may be a current limited PV source or the ac output of a utility-interactive inverter. These circuits are sized at 125% of the continuous currents the supplies can generate and are not affected by currents from the obvious supply for the circuit. However, they can be damaged by external sources that may be connected such as parallel-connected PV source circuits or utility-power sources.

See example diagrams on the next page.

DC Example—Current limited PV source circuits:



5. Copyright Assignment

- (a) ☒ I am the author of the text or other material (such as illustrations, graphs) proposed in the Proposal.
- (b) ☐ Some or all of the text or other material proposed in this Proposal was not authored by me. Its source is as follows: (please identify which material and provide complete information on its source)

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materials that I have identified in (b) above, I hereby warrant that I am the author of this Proposal and that I have full power and authority to enter into this assignment.

Signature (Required)

John L. Wiles Jr.

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