

FORM FOR PROPOSAL FOR 2014 NATIONAL ELECTRICAL CODE®

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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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Date 2 Nov 2011 Name John C. Wiles, Jr Tel. No. 575-646-6105
Company Southwest Technology Development Institute, New Mexico State University Email jwiles@nmsu.edu
Street Address 3705 RESEARCH DR/MSC 3 SOL City LAS CRUCES State NM Zip 88003

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Please indicate organization represented (if any) PV INDUSTRY FORUM

1. Section/Paragraph 690.9(E)

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~~).]

Revise the section as follows.

690.9(E) Series Overcurrent Protection. In grounded PV source circuits, a single overcurrent protection device, where required, shall be permitted to protect the PV modules and the interconnecting cables. In ungrounded PV source circuits complying with 690.35, an overcurrent protection device, where required, shall be installed in each ungrounded circuit conductor and shall be permitted to protect the PV modules and the interconnecting cables.

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.)

As written, the 2011 NEC gives misleading overcurrent requirements for PV arrays. Ungrounded PV arrays are being installed in increasing numbers to permit the use of the newer transformerless utility-interactive inverters. These ungrounded PV source circuits require overcurrent devices in each of the ungrounded conductors, whereas the grounded PV source circuit requires an overcurrent device in only the single ungrounded conductor.

In some cases, overcurrent protection is not required in either grounded or ungrounded PV source circuits (see 690.9(A) EX).

The addition of the word “grounded” and the reference to 690.35 and the ungrounded PV source circuit clarifies these differing requirements.

5. Copyright Assignment

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