

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.

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Please indicate organization represented (if any) PV INDUSTRY FORUM

1. Section/Paragraph 690.66

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 new section to Art 690.

690.66 DC-To-DC Power Converters. DC-to-DC power converters connected to the output circuit of one or more PV modules shall be installed in full compliance with the requirements of the certification/listing, all labels, and the instruction manual.

The dc output of these devices shall not be required to meet the requirements of a dc PV module.

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.)

DC-to-DC converters being used in and developed for PV systems differ from manufacturer to manufacturer and each has significantly different input and output characteristics. There are far too many input and output variations and combinations as well as interactions with external equipment such as inverters and other devices to specifically address each device in the Code.

This requirement will re-enforce the 110.3(B) requirement that these listed, very complex and numerous devices be installed as labeled and by following the instructions provided with the product.

The last sentence is required to inform AHJs that the dc module output requirements are not applicable to these devices.

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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