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

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| Electrical Code. Proposals received after 5:00 p.m will be returned to the submitter. If supplementary etc.) is included, you may be required to submit su alternates of the technical committee. | material (photograph | s, diagrams, reports, | | |
|---|--|--|---|--|
| For technical assistance, please call NFPA at | 1-800-344-3555. | | | |
| Please indicate in which format you wish (Note: If choosing the download option, yo | | | paper down | |
| Date 11/3/11 Name William F. Brooks | | Tel. No. | . 707-332-076 | 1 |
| Company Brooks Engineering | | Email | bill@brooksola | ır.com |
| Street Address 3949 Joslin Lane | City Vacaville | State | CA Zip | 95688 |
| ***If you wish to receive a hard copy, a street address MU | ST be provided. Deliver | ries cannot be made to PO | boxes. | |
| Please indicate organization represented (if any) Chai | irNFPA CMP4 Task G | roup on Firefighter Safety | | |
| 1. Section/Paragraph 690.12 | | | | |
| 2. Proposal Recommends (check one): | new text | revised text | de | eleted text |
| 3. Proposal (include proposed new or revised wording legislative format; i.e., use underscore to denote wording to (deleted wording).] | | | | |
| 690.12 PV Arrays on Buildings Response to Emergen | ncy Shutdown. | | | |
| For PV Systems installed on roofs of buildings, photo of when the utility supply is deenergized or when the deenergized, the maximum voltage at the module and | PV power source disc | onnecting means is oper | | |
| 4. Statement of Problem and Substantiation for Proposecific reason for your Proposal, including copies of tests, publication.) | | | | |
| In order to increase the electrical and fire safety of PV significant improvement in safety for rooftop PV systoperations on a PV-equipped structure. The recent D for the ability to deenergize this generator in the even | ems based on the safet HS/AFG funded resear | y concerns of the Fire S | ervice during er | mergency |
| The proposal addresses the deenergization of rooftop still energized. PV source circuit conductors include a point. In order to meet this requirement, some electron. This shutdown must coincide with a utility outage, or micro-inverter, and ac module would all meet this requirement. The to 72 cells, to be used on rooftop PV systems without would also have to have some method to deenergize to capacitance or a battery. | all wiring between mod nic means will be nece manual inverter shutd uirement at the modulue 80 volts at the modulue modifying the internal | dules or modular electronssary to shut off the monown. A PV module-level end of the circuit. Simule and module conducted wiring of the module. | nic devices up to dule at the source el dc-dc converte ple remotely co ors is to allow ty The inverter, or | o the combining ce circuit level. er, single-module introlled vpical modules, up utilization load |
| 5. Copyright Assignment | | | | |
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| (b) Some or all of the text or other mat | | | hored by me. I | Its source is as |

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)

PLEASE USE SEPARATE FORM FOR EACH PROPOSAL

Mail to: Secretary, Standards Council · National Fire Protection Association 1 Batterymarch Park · Quincy, MA 02169-7471 OR
Fax to: (617) 770-3500 OR Email to: proposals.comments@nfpa.org 8/5/2010