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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etc.) is included, you may be required to submit s alternates of the technical committee.	ufficient copies for all members and		
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Date 2 Nov 2011 Name John C. Wiles, Jr		Tel. No.	575-646-6105
Company Southwest Technology Development Institu	ne New Mexico State University		jwiles@nmsu.edu
Street Address 3705 RESEARCH DR/MSC 3 SOL	City LAS CRUCES		NM Zip 88003
***If you wish to receive a hard copy, a street address Mb			·
Please indicate organization represented (if any) PV		muuc to 1 0 b	oxes.
Section/Paragraph			
2. Proposal Recommends (check one):	new text rev	rised text	deleted text
3. Proposal (include proposed new or revised wording legislative format; i.e., use underscore to denote wording to (deleted wording).]	g, or identification of wording to be d	eleted): [Note:	: Proposed text should be in
Revise 690.31(E) as follows and add the 690.31 (E) Direct-current Photovol Building. Where dc PV photovoltaic sor other photovoltaic PV system are runetal raceways, Type MC metal clad of from the point of penetration of the suraccessible disconnecting means. The characteristic (H)(B), and (D). The wiring methods so (1) through (4).	taic Source and <u>DC</u> Ou source and <u>dc</u> PV output c in inside a building or stru- table that complies with 25 rface of the building or str disconnecting means shall hall comply with the addi-	ircuits froncture, the 50.118(10 cucture to comply we tional ins	om a building integrated ey shall be contained in 0) or metal enclosures the first readily with 690.14(A) through stallation requirements in
Informational Note: This requirement PV modules because those circuits are energized at the main service disconne breaker. These circuits respond to fau panel to which they are connected.	very similar to ac branch ect and at any intermediat	circuits. e disconn	They can be de- necting means or circuit
4 Statement of Ducklem and Substantiation for Duck	osalı (Noto: Stata the problem that wow	ld be received	hy years management detions give the

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 terms "dc" are inserted for clarity. Some AHJs throughout the country continue to apply this requirement to the ac output circuits from inverters. Only the dc PV circuits, always energized by the sun, present the fire and shock hazards.

Abbreviation of photovoltaic to PV after the first use is consistent with the NEC Style Manual

The reference to 690.14 (A) through (H) is changed to match a proposal for that section.

The informational note is required to inform AHJs that ac inverter output circuits are not to be treated as the sunlight-energized dc PV source and output circuits. With ac PV modules and micro inverters attached to dc PV modules, the situation can be confusing.

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	\sim $_{\rm PJ}$	5	1 -00-5	

(a)	\boxtimes	I am the author of the text or	other material	(such as illustration	s, graphs) proposed in	the	Proposal
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(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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Signature (Required)

John C. Wiles, S.

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