## 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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For technical assistance, please call NFPA at 1-800-344-3555.				
Please indicate in which format you wish to receive your ROP/ROC  elec (Note: If choosing the download option, you must view the ROP/ROC from our we			nload u.)	
Date 2 Nov 2011 Name John C. Wiles, Jr		<b>Tel. No.</b> _ 575-646-6105		
Company Southwest Technology Development Institue, New Mexico State University	Email	_jwiles@nmsu.c	edu	
Street Address 3705 RESEARCH DR/MSC 3 SOL City LAS CRUCES	State	NM Zip	88003	
***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 690.8(B)(2)				
2. Proposal Recommends (check one):  new text	vised text	d	eleted text	
3. Proposal (include proposed new or revised wording, or identification of wording to be d legislative format; i.e., use underscore to denote wording to be inserted (inserted wording) and strikeleted wording).]				
Revise to add terminal temperature conductor size adjustment t	o (2):			
(2) Conductor Ampacity. Circuit conductors shall be sized to requirement earry not less than the larger of 690.8(B)(2)(a) thro  (a) Shall carry one hundred and twenty-five percent of the in 690.8(A) without any additional correction factors for c	ugh (2)(d e maxim	<u>d)</u> . <del>, or (2)(b</del> ) um curren	<del>)</del>	
(b) Shall carry the maximum currents calculated in 690.8			of use have	
been applied.	` /			
(c) Shall meet the terminal temperature requirements of	110.14(C	) where th	<u>e conductor</u>	
terminates at a terminal with a temperature rating. One	hundred	l and twent	<u>y-five percent</u>	
of the maximum current calculated in 690.8(A) shall be us	sed in th	e terminal	temperature	

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.)

overcurrent protective device, where required, after application of conditions of use.

(ed) The conductor selected, after application of conditions of use, Shall be protected by the

The terminal temperature limitations of 110.14(C) are often not applied during design or checked during the AHJ plan review. It is common to use 90°C rated conductor in PV systems with overcurrent protection devices with 60 °C or 75°C terminals. The elevated temperatures experienced in dc combiner boxes mounted in exposed locations on roofs makes this check even more important. Adding this requirement here will make this requirement more visible to people using 690.

Changes were also made to correct grammar.

estimation.

5. Copyright Assignment	
(a) 🛛 I am the	author of the text or other material (such as illustrations, graphs) proposed in the Proposal.
· / —	or all of the text or other material proposed in this Proposal was not authored by me. Its source is as e identify which material and provide complete information on its source)
in which this Proposal in thi	o the NFPA all and full rights in copyright in this Proposal and understand that I acquire no rights in any publication of NFPA is or another similar or analogous form is used. Except to the extent that I do not have authority to make an assignment in ied 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
Signature (Required)	John C. Wes.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: <a href="mailto:proposals.comments@nfpa.org">proposals.comments@nfpa.org</a> 8/5/2010