

**Working Group D1  
Meeting Notes  
Chicago, Illinois  
May 19, 2011**

*Chair – Hamid Sharifnia*

*Vice Chair – Robert (Bob) Nowell*

*Secretary – Joseph (Joe) Bell*

<b>Attendee's Name</b>	<b>Company</b>	<b>Member</b>	<b>Guest</b>
Hamid Sharifnia (Chair)	PacifiCorp	<b>x</b>	
Robert (Bob) Nowell (Vice-Chair)	Southern Company	<b>x</b>	
Joe Bell (Secretary)	PacifiCorp	<b>x</b>	
Gary Engmann	Burns & McDonnell	<b>x</b>	
Charles Haahr	Westar Energy		<b>x</b>
Dewan Jamir	Burns & McDonnell		<b>x</b>
Ken Larson	PacifiCorp		<b>x</b>
Perumal Radhakrishnan	PacifiCorp		<b>x</b>
Donald R. Rogers	Bechtel	<b>x</b>	
Frank C. Shainauskas	Sargent & Lundy		<b>x</b>
David Sharpe	S & C Electric, Inc.		<b>x</b>

The meeting was called to order at 08:05am. There were 6 members and 5 guests in attendance. The obligatory slides explaining IEEE's guide lines for patents and meetings were shown.

After welcoming the members and guests, a copy of the October, 2010 Nashville meeting notes were shown and discussed. It was again explained that the typing error found in table 3, page 13 of the guide for the 169kV, 750kV BIL level will be corrected in the next revision.

Hamid discussed Gary Engmann's e-mail correspondence regarding the inconsistencies in part 1 of the NESC, Elevation Correction. Gary went on to explain that he had received an e-mail from Jack Christensen indicating that Jack had hoped that a "Tentative Intern Amendment" (TIA) would be included in the 2012 addition. Gary didn't think this was possible as the addition is locked in at this time. Gary had received a second e-mail from Jack where in Jack explained that for voltages exceeding 72.5kV, phase to phase, the clearances should be 3% for each 300 meters, (1000ft.) in excess of 1000 meters, (3300ft.) in elevation above sea level. As Gary further explained, the 2012 NESC code cannot be changed until it has been published which is presently scheduled to happen in August of this year. Gary indicated that there will be a note in the code book referring to the 1427 guide for altitude adjustment. After much discussion, Gary doesn't feel that there is a need to have an altitude correction factor in the NESC code book for BIL. Having an altitude correction factor for BIL is not theoretically sound, but it is a reasonable approximation. Gary indicated that a humidity factor was included in the older documents, but was removed in later revisions. Don't know why it was removed, but it is believed that its exclusion will not make a big difference.

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Gary went on to explain that, by researching old publications that he is able to obtain from the Linda Hall Library in Kansas City, he has been trying to determine where the original clearance values given in the documents came from. He has yet to find any information that shows how the values were arrived at. Gary is to prepare a TIA for elevation correction for only the NESC code book. There will be no changes to the 1427 guide.

We were reminded that the guide will expire at the end of this year and that it will need to be re-affirmed before then. An e-mail will be sent out to all committee members reminding them to re-affirm the guide. Once the reaffirmation is completed, Hamid will initiate the necessary procedures to complete the process.

The next meeting is scheduled for October in Nashville. The exact week has yet to be finalized.

The meeting was adjourned at approximately 09:25am.

Respectfully submitted,

Joe Bell  
WGD1 Committee Secretary