

**Working Group D1
Meeting Notes
Montréal, QC, Canada
May 19, 2010**

*Chair – Hamid Sharifnia
Vice Chair – Robert (Bob) Nowell
Secretary – Joseph (Joe) Bell*

Attendee's Name	Company	Member	Guest
Hamid Sharifnia (Chair)	PacifiCorp	x	
Robert (Bob) Nowell (Vice-Chair)	Southern Company	x	
Joe Bell (Secretary)	PacifiCorp	x	
Hanna Abdallah	Arizona Public Service		
Radoslav Barac	General Electric	x	
Anatoliy Bykadorov	Eeole Polytechnique		x
Denis Clement	Hydro Ottawa Ltd.		x
Charles Haahr	Sega, Inc.	x	
Donald R. Rogers	Bechtel	x	
James Sosinski	Patrick Energy Service		x
Don Wengerter	Wisconsin Public Service		x

The meeting was called to order at 08:05am. There were 6 members and 4 guests in attendance.

The obligatory slides explaining IEEE's guide lines for meetings were shown.

After welcoming the members and guests, Hamid explained that he is continuing to pare down the committee roster to only include those members who were still active participants. We are still receiving a few "undeliverable" e-mail messages, so it is believed that there are still members who are no longer active in IEEE or have retired. In hopes of identifying those individuals that may no longer be, or want to be, an active member of the WGD1 committee, Hamid read through the attendance roster and asked if anyone present had any knowledge of the status of the individuals called out. Some individuals listed as guests, but hadn't attended any meetings in awhile, will be removed from the list. An attempt will be made to contact the members that were identified as questionable and verify whether or not they want to continue to be an active member of the WGD1 working group.

Although a copy of the meeting notes from the October 2009 Nashville meeting was not available, a general review of what was covered at the Nashville meeting was provided.

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Hamid reaffirmed that the 1427 guide was approved and then presented the following comments that were received to date:

Two e-mail messages were received from Gary Engmann relating to the 1050 kV BIL level listed in the NESC code book versus the value listed in table 3 of the 1427 guide. The NESC value appears to be greater than the one listed in the 1427 document. Gary indicated that there isn't an elevation correction factor in Part 1 of the NESC and he didn't care much for the elevation adjustment given in Part 2 of the NESC. Gary feels that the lack of a correction factor is a safety issue and mentioned that it was too late to make a correction to the 2012 Code. Gary requests that the WGD1 draft an NESC rule that will require an elevation adjustment factor and provide a calculation equation, at least provide something with a better engineering basis than the approximation given in section 23.

Some time was spent discussing the clearance differences between the IEEE 1427 guide and the NESC guide book. It appears that the IEEE guide uses a 1.15 safety factor and the NESC uses a 1.10 safety factor. Ken White & Dave Kelly were to look into this but no response from either was received. Hanna Abdollah volunteered to re-look into the issue.

Action Item: Hanna is to provide, by the end of May, an e-mail message to Hamid explaining the difference between the 1427 guide and the NESC code book and the fact that the NESC code book does not provide an altitude adjustment factor. Hamid will then forward this on to Gary Engmann, who in turn, is to forward it onto the correct person at NESC.

Agenda Item 5 – Gary Engmann's question regarding the inconsistencies between PC37.301, HV air switches and the IEEE 1427 & 605 guides, (Minimum clearances and insulator strength), will be left for the next meeting.

Randy Clelland sent an e-mail indicating that he found what is believed to be a typo in the minimum phase to ground clearance listed in table 3, page 13 of the guide for the 169kV, 750 BIL voltage level. Instead of the 1325mm/56in. listed, it really should be 1425mm/56in. This error will be corrected in the next revision.

Hamid mentioned that the 1427 guide will be re-affirmed next year.

The next meeting is scheduled to be held October 18th through the 21st in Nashville.

The meeting was adjourned at 09:10am.

Respectfully submitted,

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Joe Bell
WGD1 Committee Secretary