

**IEEE/PES Working Group D1  
Recommended Minimum Clearances in Substations  
Minutes of April 11, 2006  
Scottsdale, Arizona**

**List of Attendees:**

<b>Attendee's Name</b>	<b>Company</b>	<b>Member</b>	<b>Guest</b>
Hamid Sharifnia (Chair)	PacifiCorp	X	
Robert (Bob) Nowell (Vice-Chair)	Southern Company	X	
Joe Bell (Secretary)	PacifiCorp	X	
Hanna Abdallah	Arizona Public Service	X	
Ken Aldridge	Allen Hoshall	X	
Romulus Berzescu	Sargent & Lundy		X
Randy Clelland	BC Hydro		X
Hector Coronado	Tucson Electric Power Co.		X
Gary Engmann	Burns & McDonnell	X	
William Esposito	Nevada Power Company		X
Marc Eskinazi (Student)	Arizona Public Service		X
Thomas Field	WAPA		X
Bill Kahane	Lower Colorado River Authority	X	
Edward O'Donnell	Baltimore Gas & Electric	X	
Bruce Ladewig	WAPA		X
Allen Love	Southern Company		X
Debra Longtin	American Transmission Company		X
Radoslav Barac	General Electric Co.		X
Steve Razinka	Northwestern Energy		X
Steve Rieter	Tucson Electric Power Co.		X
Donald R. Rogers	Bechtel	X	
Ann-Marie Sahazizian	HydroOne, Inc.	X	
Boris Shvartsberg	Public Service Electric & Gas	X	
Casey Scoggins	TVA		X
Ryan Stargel	TVA		X
Brian Stephens	Ameren		X
Brian Wallace (Student)	Salt River Project		X
Roland Youngberg	Mid-American	X	

**Previous Meeting Minutes:**

There were none taken at the previous meeting in Nashville.

**Working Group D1  
Scottsdale Meeting Minutes of April 11, 2006**

**Summary:**

The meeting was called to order at 1310 hours. There were 12 members and 16 guests in attendance.

After welcoming committee members and guests, Hamid Sharifnia, the D1 Working Group chair, introduced the committee's vice chairman and secretary. Hamid acknowledged the hard work that has already been done and emphasized the continuing need for everyone's support in order to complete the standard in a timely manner.

Ann-Marie Sahazizian was called on to explain the requirements for a PAR extension. She informed the group that, if an extension is required, it will be the third one and explained that getting a third extension maybe difficult. She emphasized the need to have the standard circulated by September, 2006.

Copies of the Draft 13 comments submitted by Roy Alexander, James Houston, Allan Kollar, Malcolm Thaden and James Wilson were passed out to the meeting's attendees. The comments and proposed changes were reviewed and their merits discussed. The comments and suggested changes that were approved were immediately added to the document. For the proposed changes that were not approved, an explanation will be provided explaining why the working group disagreed.

As the allotted time ran out, the draft 14 comments received from Malcolm Thaden and James Wilson were not addressed.

The meeting was adjourned at 1700 hours.

**Action Items/Assignments:**

**Hanna Abdallah** - Research as to where the 1.28 value in section 6.4.1 came from.

**Hanna Abdallah** - Verify and explain where the 1.07 value in Equation 10 came from.

**Hamid Sharifnia** - Add a column to table B-2 showing symbols and add a row showing the phase to ground voltage.

**Ann-Marie Sahazizian** - Review paragraph 4 in section 6.1 and ascertain what the correct wording should be.

**Hanna Abdallah** - Origin of the 1.15 value in section 5.1 is in question. It was agreed that it is necessary to verify which number is correct for the BIL value, "1.15" or "1.20".

**Please note that all action items/assignments are due August 1, 2006.**

**Next Meeting:**

The next scheduled meeting will be in Nashville Tennessee in either October or November 2006.

Minutes respectfully submitted,

Joseph Bell  
Secretary, D1 Working Group