

IEEE Power & Energy Society  
Switchgear Committee  
C37.20.2 Working Group Report  
30-April-2012

The working group met on Monday, April 30, at 8:10AM.

The PAR for this project was approved by IEEE-SA 26-Sept-2008.

Attendees introduced themselves and gave their employer and affiliation. Attendance included 16 WG (of 25) members (4 absent, 5 excused by E-Mail or due to simultaneous meetings) and 29 guests. Attendance is as shown below:

Members	Members	Members	Guests	Guests	Guests
P. Barnhart (P)	F. Mayle (P)	C. Schneider (P)	J. M. Biasse (P)	J. Giacetti (E)	M. Palazzo (P)
T. Burse (E)	D. Mazumdar (P)	J. Smith (P)	F. Boo (P)	P. Gingrich (P)	M. Parvin (P)
E. Byron (P)	D. Mohla (P)	H. Song (A)	J. Bowen (P)	D. Giraud (P)	R. Pawar (P)
J. Earl (P)	T. Olsen (P)	P. Sullivan (E)	R. Boyce (P)	J. Harley (P)	E. Peters (P)
D. Edwards (P)	M Orosz (E)	C. Taylor (P)	R. Bugaris (P)	T. Hawkins (P)	G. Schoonerberg (P)
L. Farr (P)	R. Parthasarathi (A)	J. Toney (A)	M. Cannady (P)	S. Hutchinson (P)	E. Seiler (P)
D. Gohil (P)	A. Patel (P)	M. Wactor (P)	S. Cary (P)	J. Joseph (P)	E. Spiewak (P)
R. Hartzel (P)	I. Profir (A)		R Cohn (P)	A. Livshitz (P)	M. Valdes (P)
D. Lemmerman (E)	R. Puckett (E)		J. Cox (P)	T. Mulcahy (P)	R. Warren (P)
			D. Elliott (P)	A. Morse (P)	P. Williford (P)

P = present, E = excused, A = absent

Patents:

Those registered had to acknowledge the IEEE-SA rules on Patents, and therefore, review in this meeting is not required. The participants were reminded that anti-competitive issues are never allowed for discussions.

The minutes from the Fall, 2011 meeting were approved as distributed.

Comments from Bob Puckett:

Mr. Puckett had submitted comments on D4 in August, 2010. Final review of his comments was conducted at the Fall 2011 meeting and in later conversations. Remaining open items from his comments were highlighted in the draft D6 and were discussed in this meeting.

- 7.2 – a bonding jumper is requested for hinged panels. L. Farr, P. Barnhart, and D. Mohla will suggest language.
- 7.3.1 – individual fusing for voltage circuits was suggested – this suggestion not accepted.
- 7.3.3.2 – wire types were discussed. It was decided not to change the requirements.
- 7.3.4 – it is suggested that wires be identified (wire markers). This suggestion accepted.
- 7.3.8 – it is suggested that 254Vac and 280Vdc circuits be required to be segregated. These are the upper limits for 240Vac and 250Vdc circuits. Not accepted.
- 7.10 – shutter padlock provisions are suggested. Not accepted. Most suppliers offer this a user-specified optional feature.
- 8.1.4.7 – suggested addition of wind requirements. This was not accepted.
- 8.4.4 – suggested elaboration or deletion. Clause deleted.
- 8.4.5 – revisions to the language were suggested. The language was modified.
- 9.2.6.4 – question about ground conductor in conduit. No change made.
- 9.3 – it was suggested that primary injection testing be recommended. This is a guide for installation and thus not appropriate.

Open discussion:

- R. Hartzel suggested extending continuous current ratings to include 5000A and 6000A. It was decided not to add these, but to modify 5.4 to state that ratings are preferred. Mr. Hartzel's earlier (August 2010) comments and draft on this issue will be distributed to the WG.
- P. Barnhart suggested language for voltage dividers, which will be reflected in the next draft.

- Annex C on partial discharge needs to be substantially revised. J. Smith, M. Wactor, T. Olsen will take this on.
- C. Taylor raised issues with 5.7, and suggested revised language. Consensus of discussion is that the manufacturer cannot design the system, and the user (or his engineer) has to do this. It was suggested that the language of 5.7 revert to the 1999 language, that the table values be as in the present draft, and that 8.7.1 be updated to address issues related to C37.110.
- D. Mazumdar – requests inclusion of non-load interrupter switches in 7.22. This is not acceptable as a main switching and interrupting device, so was not accepted.
- T. Olsen – we should cite IEEE 4 without date. The new revision is imminent.
- T. Olsen – 5.4.3 specifies that momentary current rating includes requirement to test with 100% short-time symmetrical current, but 6.2.3.1.1 which stipulates no less than 90%. 90% is adequate for the momentary test.
- T. Olsen – 6.2.4 allows single-phase short-time testing, which should only be allowed for the ground bus test.
- T. Olsen – 6.2.4.1.1 allows-short test duration to exceed two seconds but that  $2 \cdot I^2$ . We need to add requirement that duration not exceed 2.5 seconds.
- T. Olsen – globally, notes need to be converted to normative text, with a few exceptions.

M. Wactor and T. Olsen will work with IEEE-SA staff to get the draft in proper format, and to resolve numerous editorial issues. The document will be reissue for working group review and comments by July 1, 2012. Comments on the next draft will serve as the basis of review in the next meeting (San Diego) with a goal of initiating ballot in the December – January vicinity so that we can deal with resolution of ballot comments at the meeting in San Diego. Members are requested to comment using Form 8C to facilitate insertion into future drafts.

The meeting adjourned at 12:05 PM.

Report submitted by: M. Wactor, WG Chair