

**C37.20.9 Working Group**  
**MINUTES OF THE FALL 2017 MEETING**  
Marriott at Sable Oaks, South Portland, ME  
October 11, 2017

The meeting was called to order by Chair, Eldridge Byron at 8:00 on October 11, 2017.

**Attendance**

Quorum: 55 people were in attendance  
26 of 46 total WG members participated, thus Quorum was met (57%) and 29 guests participated

*(Note WG is comprised of both Switchgear and Substation committee members)*

Membership and attendance status will be updated in AMS system.

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- 1) Approval of Meeting Agenda  
The goal for the 10/11/2017 meeting was to review the comment resolution committee dispositions received on the last ballot in anticipation of going out for a re-ballot this fall.  
Agenda was reviewed and approved by consensus.
- 2) Patent Slides  
No issues were voiced by the meeting attendees
- 3) Introduction of members and guests – Complete
- 4) Minutes  
Minutes from the Spring 2017 Charlotte NC meeting were reviewed – No issues
- 5) Document Review  
Of the 176 total comments received, 72 were technical, 19 were general, and 85 were editorial. There was an 86% response rate of the 116 balloters with 85% approval of the draft and 7% abstaining.

Dispositions from the comment resolution committee for Draft C37.20.9-D4 that were distributed before the meeting were accepted.

New comments were discussed and accepted by the WG as follows:

Edgar Dullni's suggestion to change last sentence of line 1403 to "*The operating devices and auxiliary equipment as required for the test being performed, all of which in principle should be in, or restored to, a new and clean condition at the beginning of each type test.*"

Chand Tailor's suggestion to remove the word "*removable*" from line 1822 and delete lines 1825 – 1827

Ted Olsen's change suggestion to change line 1835 and re-letter the following lines appropriately "*c) Drawout element position interlocks*"

Torsten Wirz's suggestion to delete the entire clause "*4.2.7.6 Unusual space limitations*" because the referenced clause does not exist

Torsten Wirz's suggestion to change line 1395 to "*If the gas or gas mixture is subject to liquefaction at or above the minimum operating temperature (-30°C for outdoor and -5°C for indoor) then tests at the rated minimum operating temperature shall be made to demonstrate sufficient performance. If the gas chemistry is suspected to change at the design temperature (at continuous rated current and ambient temperature of 40°C), additional tests at this gas temperature shall be performed.*"

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- 6) Action Items / Schedule
- a) Chair to present status in Switchgear Assemblies Subcommittee meeting on October 11
  - b) Chair to incorporate changes coming out of this meeting and initiate a 20-day recirculation ballot in the next 30 days.
  - c) Chair to initiate a web-ex meeting to discuss any comments from the recirculation ballot before the Joint Technical Committee Meeting in January.
  - d) If >94% approval on the next ballot and no major technical negative comments the Chair will get WG approval to submit the document to RevCom before the Spring 2018 meeting. Substation committee members of the working group did not see an issue with proceeding with this plan.
- 7) Adjourn  
 Meeting adjourned at 9:40.

Reported by:

Terrance Woodyard  
 Secretary C37.20.9  
 E: Mr.Terrance.Woodyard@IEEE.org

Attendance record and as recorded in the AMS system:

Last Name	Fist Name	Company	Role	Present
Ball	Chuck	S&C Electric	Member	
Barnhart	Paul	UL	Member	Yes
Becker	George	Power Engineers	Vice Chair	
Berenguela	Diego	Goggle	Member	
Boyce	Russell	Eaton	Member	Yes
Bowen	Jim	Aramco	Member	
Burse	Ted	Powell Industries	Member	
Byron	Eldridge	Schneider Electric	Chair	Yes
Chiodo	Vincent	HICO (Hyosung)	Member	Yes
Colesanti	Michael	Google	Member	Yes
Dillilo	Patrick	Con Edison	Member	
Dullni	Edgar	ABB	Member	Yes
Edwards	Doug	Siemens	Member	Yes
Elliott	Donald	ABB	Member	Yes
Flores	Sergio	Schneider Electric	Member	Yes
Foster	Robert	Megger	Member	
Giraud	Douglas	Powell Industries	Member	Yes
Glaesman	Peter	PCORE Electric Co.	Member	

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<b>Last Name</b>	<b>Fist Name</b>	<b>Company</b>	<b>Role</b>	<b>Present</b>
Gohil	Sahadev	Central Electric	Member	Yes
Hines	Jared	Eaton	Member	Yes
Jacobs	Allan	ABB	Member	Yes
Jung	Wolfgang	Siemens	Member	Yes
Koch	Hermann	Siemens	Member	
Liu	Hua	Southern Calif. Edison	Member	
Livshitz	Albert	CE Power Solutions	Member	
Mazumdar	Deepak	Consultant	Member	Yes
Meiners	Steven	GE	Member	
Mitchell	Dave	Dominion Power	Member	
Mulcahy	Tom	Dominion Power	Member	Yes
Neighbors	Terry	ABB	Member	Yes
Olsen	Ted	Siemens	Member	Yes
Orosz	Miklos	Retired	Member	Yes
Pawar	Rahul	ABB	Member	
Qasem	Ahmat	Bechtel	Member	
Rothlisberger	Lukas	Dilo	Member	
Scharf	Scott	TVA	Co-Secretary	
Schneider	Carl	Schneider Electric	Member	Yes
Sharma	Devki	Entergy Corp	Member	
Shullaw	John	GE	Member	
Skidmore	Michael	AEP	Member	
Tailor	Chand	Eaton	Member	Yes
Wactor	Michael	Powell Industries	Member	
Warren	Robert	DNV GL - KEMA	Member	Yes
Wilkie	Eddie	Eaton	Member	Yes
Woodyard	Terrance	Siemens	Co-Secretary	Yes
Zhu	Xi	GE	Member	

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<b>Guests</b>		
<b>Last Name</b>	<b>First Name</b>	<b>Company</b>
Ashtekar	Koustubh	Eaton
Becskei	Helmut	GIPRO
Beseda	David	S&C Electric
Cary	Stephen	GE
Chouhan	Simarjit	Crown Technical Systems
Cohn	Bob	Powercon
Door	Jeff	H-J
Esco	Tanner	Eaton
Gingrich	Paul	AZZ Switchgear Systems
Glinsky	Ilya	SCE
Harley	Jack	First Power Group
Hussey	Matt	Eaton
Jain	Rahul	S&C Electric
Kaminski	John	Siemens
Kim	Sangtae	HICO
LaFond	Mike	GE
Leccia	Brad	Eaton
Li	Wangpei	Eaton
Lo	Benson	Toronto Hydro
Pattison	Mark	H-J
Peterson	Mark	Xcel Energy
Ricci	Anthony	First Energy
Rich	Bobby	Dominion Energy
Steigerwalt	Don	Duke Energy
Trichon	Francois	Schneider Electric
Venne	Bruce	Rockwell Automation
Wen	Jerry	BC-Hydro
Wirz	Torsten	ABB
Xiao	Ang	3M