

PC37.122.2 Working Group
Minutes of the Spring 2021 Switchgear Meeting on April 19, 2021
MS Teams in lieu of Charlotte, NC

Attendance:

33 people were in attendance

11 of 13 WG members participated; thus, Quorum was met (85%)

22 guests participated

Note: Meeting attendance updated in the AMS system

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- A. Call to order - *The meeting was called to order by Chair, E. Byron at 11:15 AM EDT (10:15 CDT)*
- B. Introduction of attendees – *Virtual in chat window*
- C. Patent Policy Review - *No issues were voiced by the meeting attendees*
- D. Document Status
 - a. PAR was approved June 13, 2019 and is good until December 31, 2023
 - b. Current document expires December 31, 2022
 - c. Still need input for WG members – especially from Substation committee members
 - d. Sections 1 thru 4 are progressing, 5 is partially complete, 6 needs more input from non-manufacturers
- E. Next Meeting (s)
 - a. **Substations:** *Aug./Sep. 2021 (Nashville, TN)*
 - b. **Switchgear:** *October 10 – 14, 2021 (Reno, NV)*
- F. Document Review
 - a. Review scope of document
 - i. No comments
 - b. Review of Section 3
 - i. No comments
 - c. Review of Section 4
 - i. No comments
 - d. Review of Section 5

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- i. Clause 5.2.2.1 Added sections for other common items like “partitions and disconnect switches, etc”
- ii. Agreed to exclude instrument transformers from single line diagrams
 - 1. Change Figure 1 to “Common one-line bus arrangements”
 - 2. Add 2 notes:
 - a. Disconnect switches may not be supplied on both sides of interrupting device
 - b. Instrument transformers are not shown because they are specific to the site application
- iii. Discussion of Figure copyright permissions. Ashley agreed to check on images from previous version.
 - 1. No more figures will be added and note removed.
 - 2. Chair is to provide copywrite documentation for inner and outer cone
 - 3. The previous version needs new copywrite permissions
- iv. Line 340 update “bays” to “vertical sections”
- v. Line 375 and others replace “has to” to “should”
- vi. In Clause 5.2.3, request was made to add load studies and application
- vii. Reviewed comment sheet from M. Youssef and agreed to incorporate into next draft
- viii. Clause 5.2.4.5 will have to be reviewed before final publication due to on-going investigation into alternative gases to SF6.
- ix. Discussion on VT fusing clarified that C37.20.9 requires fused VTs to remain in line with the NEC. Chair will reword clause 5.2.4.6 to allow the end user to choose to follow NEC or only NES. Also, discussed the possibility of a Corrigenda to C37.20.9.
- e. Review of Section 6
 - i. Decided that environmental conditions (altitude, temperature, etc) need not be detailed as they are discussed in C37.20.9.
 - ii. Chair requested input on section 6.3.2 regarding characteristics of gases available. Suggested that we simply reference C37.100.7.
- f. Review of Section 7
 - i. No comments
- g. Review of Section 8
 - i. Chair requests support from end users on clauses 8.1 thru 8.3. D. Mitchell volunteered to provide draft text. Eldridge and Terry will provide draft for 8.4
- h. Review of Annexes
 - i. Annex A has a lot deleted as it was a repeat of C37.20.9.
 - ii. Annex B will be updated as we progress.
- G. Membership
 - a. A. Livshitz and J. Phouminh requested WG membership
- H. Action Items / Schedule
 - a. T. Woodyard to create an iMeet workspace and share with the WG and guests.
 - b. A. Moran to advise on copy right permission on figures from previous version.

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- c. Chair will schedule a meeting in mid-June. Doodle polls will be sent via the N. Matone and T. Woodyard.
 - d. Chair will continue to include both Switchgear and Substation WG members in **ALL** meetings
- I. Adjourn - *Meeting adjourned at 12:46 PM EDT*
- a. Motion: D. Mitchell
 - b. Second: A. Jacobs

Reported by Terrance Woodyard – Secretary (Switchgear Committee)

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Attendance record:

Last Name	First Name	Affiliation	Role
Byron	Eldridge	Schneider Electric	Chair
Zhu	Xi	GE Renewable Energy	Vice-Chair
Woodyard	Terry	Siemens Industry, Inc.	Secretary (SWGR)
Matone	Nicholas	Burns & McDonnell	Secretary (SUBS)
Bryant	Craig	Duke Energy	Member
Gabler	Cullen	Black & Veatch	Member
Jacobs	Allan	Eaton Corporation	Member
Liu	Hua Ying	Southern California Edison	Member
Mitchell	Dave	Retired	Member
Novev	Michael	Burns & McDonnell	Member
Youssef	Mina	Eaton Corporation	Member
Barnhart	Paul	Underwriters Laboratories	Guest
Becker	George	POWER Engineers Inc.	Guest
Boulus	Michael	PSE&G	Guest
Cary	Stephen	Eaton	Guest
Claxton	Matthew	Powell Industries	Guest
Collette	Lucas	Duquesne Light	Guest
Edwards	Doug	Siemens Industry, Inc.	Guest
Jacobs	Allan	Eaton Corporation	Guest
Keels	Thomas	kEElectric Engineering	Guest
Kennedy	Chad	Schneider Electric	Guest
Kim	SangTae	HICO America	Guest
Livshitz	Albert	CE Power Engineered Services	Guest
May	Steven	Southern Company	Guest
Mitchell	Dave	Mitch and Associates	Guest
Moran	Ashley	IEEE-SA	Guest
Nelson	Jeffrey	Tennessee Valley Authority	Guest
Patel	Pathik	Duke Energy	Guest
Phan	Lise	Pacific Gas and Electric Company	Guest
Phouminh	John	PEPCO HOLDINGS, INC.	Guest
Polchinski	Craig	MEPPI	Guest
Rich	Bobby	Dominion Energy	Guest
Santos	Leonel	Schneider Electric	Guest
Schiffbauer	Daniel	Toshiba International	Guest
Skidmore	Michael	AEP	Guest
Swing	Donald	Powell Industries	Guest
Webb	John	ABB	Guest
Yu	Li	Eaton Corporation	Guest