

**C37.59 Working Group
MINUTES OF THE FALL 2017 MEETING**

**Marriott Sable Oaks, Portland, ME
2:00PM – 6:00PM, October 10, 2017**

- October 9, 2017:** Meeting was called to order by Chair, M. Dean Sigmon at 8:03 AM.
Meeting was recessed at 9:45AM.
- October 10, 2017:** Meeting was reconvened at 2:00 PM.
Meeting adjourned (agenda completed) at 5:32 PM.

Attendance

Quorum: 26 total members thus Quorum required 13 members.
Members: 22 members were present, thus quorum was met for meeting.
Guest: 31 Guest participated
Total: 53 total present

Attendance is listed at bottom of this document. Membership and attendance status are updated in AMS system.

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1. Introduction of Member and Guests, and attendance

Introduction of attendees made.
Attendance roster distributed.

2. Approval of Meeting Agenda

Agenda was reviewed.
Ted Olsen: Motion to approve
Darryl Moser: 2nd motion
Unanimously approved

3. Call for Patents

Verbal call for patents made at both October 9 and October 10, 2017 meetings.
Not patent issues were raised.

4. Approval of Working Group minutes

- 4.1. Charlotte, NC, May 12, 2017 Working Group (WG) [minutes](#)
4.2. On-Line, May 26, 2017 WG [minutes](#)

Charlotte NC, May 12, 2017 Working Group (WG) minutes
Larry Yonce: Motion to approve
Esco Tanner: 2nd motion
Unanimously approved

On-Line, May 27, 2017 Working Group (WG) minutes
Larry Yonce: Motion to approve
Keith Flowers: 2nd motion
Unanimously approved

Note: Reported PC37.59 PAR expires December 31, 2018. No issues anticipated for successful completion of PC37.59 ballots.

5. Ballot comment resolution – Comment Resolution Form (Strawman)

- Review of:
- PC37.59-D11 (2017-10-01)
- PC37.59-D10.1 creating D11 comments (2017-10-01)

Created during WG meeting
- PC37.59-D11.1
- PC37.59-D10.1 creating D11.1 comments

Target Subjects

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- 5.1. Appropriate action
Accepted Strawman Comment Resolution – documented in PC37.59-D11.1.
- 5.2. Arc Resistant
Accepted Strawman Comment Resolution – documented in PC37.59-D11.1.
Requirements associated with Arc Resistant conversions are kept creating C37.59-D11.1.
IEEE 1584 is not added to Bibliography. The Scope of this IEEE 1584 does not apply to the issues of conversion of switchgear.
- 5.3. Checklist
Checklist Form is being updated.
Checklist Form will be included in re-circulation ballot.
Appendix A will be updated to match the PDF form.
- 5.4. Compartment Adapters – Serviceability
Section 6.6.2 rewritten – PC37.59-D11.1.
Bullets reorganized to cover the basic of executing design tests with exceptions for:
 - Adapters and CB shall have mechanical endurance design tests to current standard mechanical endurance number of operations.
 - Adapter to cubicle adapters that are fixed for normal operation to reduced number of operations – 50 insertions/removals.
 - Adapters without serviceable components – 0 racking operations.
 - Fixed definition: compartment adapter.
 - Action Item: Create Informative Annex clarifying section 6.6.2.
 - New – New: Current Standards
 - New – Old: Standard at time of manufacture
 - Fixed with limited serviceability: 50 operations
 - No serviceability: 0 operations
- 5.5. Compartment Adaptors – Fasteners
New 6.6.2 d) wording provided.
Action Item below – Create new annex.
- 5.6. Compartment/Switchgear Adapters – Interlocks
New 6.6.2 e) wording provided.
- 5.7. Control Circuit Coordination
No change made.
- 5.8. Conversion descriptions
6.6.2 rewritten
Action Item below – Create new annex.
- 5.9. Definitions – Prioritization
Comments was rejected.
- 5.10. Definitions
 - permanently mounted external remote racking device
Proposed rewording was accepted.
 - reconditioning
Not discussed
Action Item – Review with Comment Resolution Committee.

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- remote racking device
Proposed rewording was accepted.
 - definite purpose switching device
Added reference to Metal-Enclosed.
- 5.11. Design verification
Proposed rewording was accepted.
- 5.12. Hazardous Parts
Slight wordsmithing, concept accepted.
- 5.13. Low-Voltage, Medium-Voltage & High-Voltage
Proposed rewording was accepted.
- 5.14. Metal-Enclosed conversions
Proposed rewording was accepted.
- 5.15. MOC/TOC
Proposed rewording was accepted.
- 5.16. Non-interchangeable circuit breaker
Proposed rewording was accepted.
- 5.17. Racking
Proposed rewording was accepted.
- 5.18. Racking – Per Standard when built
Proposed rewording was accepted.
- 5.19. Racking from outside enclosure
Change from Strawman. Added reference to C37.20.7.
- 5.20. Scope
Proposed rewording was accepted. That is, rejected ballot comment.
- 5.21. Standards in effect
Proposed rewording was accepted.
- 5.22. Switchgear Labeling
Adapted adding label to each VS.
Proposed new section 8.2 accepted.
- 5.23. Third Party Certification
Wordsmithed some deleting references to ANSI & IEEE standards.
Proposed new section 8.3 accepted.
- 5.24. Transient Voltage Protection
Proposed rewording was accepted. That is, rejected ballot comment.
- 5.25. Trip Systems
Wordsmithed some.
Accepted ballot comment in principal.
- 5.26. Withstand Current
Reviewed terms in each applicable section and corrected terms.

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5.27.X/R

Accepted proposed wording with slight formatting correction.

6. Action Items Summary

Keith Flowers: Motion to form Comment Resolution Committee (CRC) for resolution of 1st ballot open issues.
Allan Morse: 2nd motion.
Unanimously approved.

CRC volunteers:

- M. Dean Sigmon
- Doug Edwards
- Steven Cary
- Mike Colesanti
- Dan Delfino
- Keith Flowers
- Jeff Mizener
- Richard Rohr
- Kevin Sippel
- Jey Thayalan

6.1. Schedule and hold on-line CRC meeting.

D. Edwards

Subsequent to WG Meeting – Issues to be addressed:

- Definition – “reconditioned” (was missed) from agenda.
- 6.6.2 – Definite purpose switching devices and reference to C37.13.1 – Consider removal.

6.2. Target is early November (Doodle Poll).

D. Edwards

6.3. Complete updates and submit re-circulation ballot – target by Dec 1, 2017.

D. Sigmon & D. Edwards

7. Adjourn

D. Sigmon

Ted Olsen: Motion to adjourn

Paul Grein: 2nd motion

Unanimously approved

Meeting was adjourned at 5:32 PM.

Reported by:

Doug Edwards

Vice-Chair PC37.59

E: doug.edwards@ieee.org

Attendance

Role	First Name	Last Name	Company
Chair	Dean	Sigmon	Eaton Corporation
Vice-Chair	Doug	Edwards	Siemens Industry, Inc.
Member	Paul	Barnhart	Underwriters Laboratories
Member	Ted	Burse	Powell Industries, Inc
Member	Stephen	Cary	GE Energy Management
Member	Robert	Cohn	Powercon Corp.
Member	Daniel	Delfino	General Electric
Member	Tanner	Esco	Eaton Corporation
Member	Keith	Flowers	Siemens Industry, Inc.
Member	Paul	Grein	Circuit Breaker Sales, Co, Inc, - GroupCBS
Member	Michael	Lafond	General Electric
Member	David	Lemmerman	PECO/Exelon
Member	Albert	Livshitz	CE Power Solutions
Member	Jeff	Mizener	Siemens Industry, Inc.
Member	Charles	Morse	Siemens Industry, Inc.
Member	Darryl	Moser	ABB
Member	T	Olsen	Siemens Industry, Inc.
Member	Anthony	Ricciuti	Eaton Corporation
Member	Richard	Rohr	Powell Electrical Systems
Member	Tim	Rohrer	Exiscan
Member	Jey	Thayalan	Schneider Electric
Member	Larry	Yonce	Eaton Corporation
Guest	Jeffrey	Andle	Emerson
Guest	Russell	Boyce	Eaton
Guest	Simarjit	Chouhan	Crown Technical Systems
Guest	Michael	Colesanti	Google
Guest	Donald	Elliott	ABB
Guest	Paul	Fox	Schneider Electric
Guest	Douglas	Giraud	Powell Industries
Guest	Sahadev	Gohil	AZZ Switchgear Systems
Guest	Ronald	Hartzel	Eaton Corporation
Guest	Tom	Hawkins	Siemens Industry, Inc.
Guest	Daniel	Hook	Western Electrical Services
Guest	Dan	Hrcir	Eaton
Guest	Rahul	Jain	S&C Electric Company
Guest	Stephen	Kanty	Isberg & Associates, Inc.
Guest	Nicholas	Keihn	Schneider Electric
Guest	Deepak	Mazumdar	Consultant
Guest	John	McClelland	Technibus
Guest	Terry	Neighbours	ABB Inc.
Guest	Miklos	Orosz	Schneider Electric
Guest	Owen	Parks	ABB
Guest	Mark	Peterson	Xcel Energy
Guest	John	Phouminh	PEPCO HOLDINGS, INC.
Guest	Thomas	Rak	PG&E
Guest	Naim	Siddiqui	Crown Technical Systems.com
Guest	Kevin	Sippel	Eaton Electric
Guest	Daniel	Toland	IEEE
Guest	Nick	Vonfeldt	Ameren Missouri
Guest	Robert	Warren	DNV GL - KEMA Laboratories
Guest	William	Wilkie	Eaton
Guest	Terry	Woodyard	Siemens Industry Inc.
Guest	Danish	Zia	UL LLC