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DRAFT 1

TC/TG/MTG/TRG MINUTES COVER SHEET

(Minutes of all Meetings are to be distributed to all persons listed below within 60 days following the meeting.)

TC/TG/MTG/TRG No. TC 1.9 DATE 6/5/2020

TC/TG/MTG/TRG TITLE Electrical Systems

DATE OF MEETING 6/3/2020 LOCATION Virtual – Zoom

MEMBERS PRESENT (VM's in bold)	YEAR APPTD	MEMBERS ABSENT (VM's in bold)	YEAR APPTD	EX-OFFICIO MEMBERS AND ADDITIONAL ATTENDANCE
Gerardo Alfonso	2017	Larry Markel	1997	Gwen Ivester
Steven Faulkner	2006	Ram Narayanamurthy	2013	
Charles Foster	2001	Daryl Collerman	2019	
Armin Hauer	2011	Mohammad Daoud	2019	
Robert Helt (MNQ)	1994	Joao Manoel Delcidio	2020	
Joaquin Ledezma	2020	Shadi A. A. Nejem	2019	
Paul Lemar	2020	Florin Daniel Popa	2020	
Kyle Mullins	2019	Pavithra Santhanam	2018	
John Nix (MNQ)	2007	Ricson Chude	2017	
Frank Pucciano	2001	Robert Crosby	2004	
Steve Rosenstock	2005	Chad Dorgan	2000	
Michael S. Todd	2011	Charles Frazell	1997	
		Randall Higa	2016	
		Joseph Lunsford	1995	
		Ken Luther	1990	
		Glenn Remington	2017	
		John Richardson	2007	
		Colleen Smith	1994	
		Leo Stambaugh	1994	

		John Stoops Sr.	2003	
		Marvin Thedford Jr.	1990	
		Gary Throckmorton	2000	
		Russ Tiffany	1998	
		Marija Todorovic	2005	
		William Warren Jr.	1983	

DISTRIBUTION: All Members of TC/TG/MTG/TRG plus the following:

TAC Section Head:	SH1@ashrae.net
All Committee Liaisons As Shown On TC/TG/MTG/TRG Rosters (Research, Standards, ALI, etc.)	TACchair@ashrae.net CTTC1@ashrae.net RL1@ashrae.net HBS3@ashrae.net SL1@ashrae.net
Mike Vaughn, Manager Of Research & Technical Services	MORTS@ashrae.net

Note: These draft minutes have not been approved and not the official, approved record until approved by the TC.

1. CALL TO ORDER

Introduction of Members and Guests

Technical Committee 1.9 was called to order at 2:01 PM. Technical Committee Member introductions were made via Zoom. Absent Members are identified on the cover sheet.

Steven Faulkner, Chair, reviewed the membership list and determined that a quorum was present.

2. APPROVAL OF MINUTES AND REVIEW OF ACTION ITEMS

Motion: Armin Hauer/Gerardo Alfonso 7-0-0-2-CV Armin Hauer made a motion to approve the January 2020 Orlando minutes with a second from Gerardo Alfonso. There was no additional discussion and the motion passed unanimously.

Report Action Items:

None.

3. TC MEMBERSHIP AND COMMITTEE APPOINTMENTS

Since the Orlando meeting, there was one provisional corresponding member added to the roster.

- Paul Lemar

4. CHAIR REPORTS: Steven Faulkner

Steven reported as follows:

- a. Steven attended the TC chair breakfast and the slide show is attached in the appendix.
- b. Highlights were:
 - i. TC meetings all being held virtually between June 1 and July 21. Roster roll over date is now August 1.
 - ii. TC Reorg – approved four TC mergers –3.2 & 3.3, 8.10 & 8.12, 9.4 & 9.8, 7.3 & 7.8. Merging TCs need revised Title & Scope and need to work closely with their Section Head.
 - iii. Chicago program submittals open June 15 and are due August 3. Tracks are listed in the appendix slide show.

Up and coming meetings: Chicago, IL – January 23 to January 27, 2021

5. SUBCOMMITTEE REPORTS

a. **Standards: Steven Rosenstock**

90.1 was published in late October and they are working on the 2022 standard.

90.2 (residential) wants to expand scope.

189.1 will be published in October 2020.

227 is just starting.

228 is going on as well

Interesting things going on between the ICC and ASHRAE.

b. **Research: Larry Markel**

None.

c. **Program: John Nix & Frank Pucciano**

Workshop for Austin, which was titled, "Impacts of Regulations and Policies on Grid-Interactive Buildings and Electric Systems" was rejected. John and Steve to discuss offline about possibly resubmitting for Chicago.

Gwen Ivester (guest) suggested to email Nick Gangemi to use him as a resource for getting programs accepted (nick.gangemi@bureauveritas.com).

d. **Handbook: Armin Hauer**

Chapter 56, next update to be published in 2023. Going through the handbook, Armin made the following observations/comments:

- Motor starting methods – needs updated
- Equipment/component protection (SCCR) – Gwen offered to write something on SCCR

Frank volunteered to draft a section on generation in roughly 3 weeks.

Steve Rosenstock has already provided updates/comments.

e. **Membership: Larry Markel**

Total TC membership stands at 37 at this meeting. 7 VM, 2 MNQ, 9 PCM, 19 CM

f. **Professional Development Committee (PDC Coordinator): John Nix**

None.

6. WEBSITE: Steven Faulkner

Website is up to date since the Orlando meeting.

7. LIAISON REPORTS

Section Head: None.

RAC: None.

TAC: None.

Handbook: None.

8. OLD BUSINESS

TC Reorg was discussed during Steven's Chair Report. Armin did not have a chance to pursue the idea of merging with TC 1.11 since our last meeting due to COVID-19. He will bring up at the June 16 TC 1.11 meeting about the possibility of our TC meeting overlap idea for Chicago. Armin will be rolling on as Chair of TC 1.11 shortly. Frank suggested that TC 1.10 (Combined Heat and Power Systems) might also be a candidate to merge with or possibly have all three merge together (1.9, 1.10 & 1.11).

9. NEW BUSINESS

Steven and Frank both suggested that our TC hold interim conference calls between the standard ASHRAE conference meetings in the spring and fall. Steven will look into setting up a conference call in the fall of 2020.

10. ANNOUNCEMENT OF NEXT MEETING

Chairman Steven Faulkner announced that the next meeting would hopefully be held in Chicago, Illinois in January 2021 at our usual time on Tuesday.

Steven thanked everyone for attending the meeting.

11. ADJOURNMENT

The meeting was adjourned at 3:15 PM and was quickly followed by a virtual camera tour of Frank's new place and Steve's basement bar.

Respectfully Submitted,

Michael S. Todd
Secretary

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Appendix I – Section 1 TAC Breakfast Presentation & Handouts, Publications, and Research Report



TC Breakfast
Reminder Handout A2



TC Chairs breakfast
May 2020 r4.pdf



TC Chairs Handout
Publications.pdf



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