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AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS, INC.
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TC/TG/TRG MINUTES COVER SHEET

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

TC/TG/TRG No.: TC 1.09

DATE: January 2006

TC/TG/TRG TITLE: Electrical System

DATE OF MEETING: Tuesday, January 24, 2006

LOCATION: Chicago, Illinois

| MEMBERS PRESENT | YEAR APPT'D | MEMBERS ABSENT | YEAR APPT'D | EX-OFFICIO MEMBERS AND ADDITIONAL ATTENDANCE |
|--|--|---|-------------|--|
| Voting Members Marvin Thedford Lawrence Markel Frank Pucciano Russell Tiffany Steve Rosenstock Wayne Frazell Colleen Smith | 04 04 04 03 04 05 02 | Voting Members Kenneth Luther International Members Marija Todorovic | 04 | Ex Officio and Liaisons Brian Rock-Handbook Visitors |
| International Members Corresponding Members Leo Stambaugh Robert Helt Charles Foster | | | | |

DISTRIBUTION:

| | |
|--|---|
| ALL MEMBERS OF TC/TG/TRG (and meeting guests) TAC Section Head: <u>Jim Norman</u> Programs: <u>James Wolf</u> RAC Research: <u>Jianshun S. Zhang</u> Staff (Res. & Tech. Services): <u>Michael R. Vaughn</u> | ASHRAE Special Publications: <u>Kimball E. Ferguson</u> TAC Chairman: <u>William P. Bahnfleth</u> Journal/Insights: <u>Dale J. Cagwin</u> Standards: <u>John Sabelli</u> Standards Staff: <u>Claire B. Ramspeck</u> |
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ASHRAE TC/TG/TRG ACTIVITIES SHEET

MEETING DATE: January 24, 2006

TC/TG/TRG NO.: TC 1.09 TC/TG/TRG TITLE: Electrical Systems

CHAIR: Frank Pucciano VICE CHAIR: Steve Rosenstock SECRETARY: Marvin Thedford

| TC/TG/TRG MEETING SCHEDULE | | | | |
|-----------------------------------|---------|-----------------------------------|---------|--|
| Location – Past 12 Months | Date | Location – Planned Next 12 Months | Date | |
| Nashville, Tennessee, USA | 6/28/04 | Chicago, Illinois | 1/25/06 | |
| Orlando, Florida, USA | 2/7/05 | Quebec City, Canada | 6/26/06 | |

| TC/TG/TRG SUBCOMMITTEES | |
|---|---|
| Function | Chair |
| Standards Research Program Handbook Webmaster | Ken Luther Larry Markel Russell Tiffany Colleen Smith Wayne Frazell |

| RESEARCH PROJECTS – CURRENT | | | |
|------------------------------------|------------|----------------------|------------------------|
| Project Title | Contractor | Monitoring Committee | Report Made At Meeting |
| None | | | |

| LONG RANGE RESEARCH PLAN | | | | |
|---------------------------------|-------|-------------|----------|--------|
| Rank | Title | W/S Written | Approved | To RAC |
| None | | | | |

| HANDBOOK RESPONSIBILITIES | | | | | |
|----------------------------------|--------------------|-------|----|----------|------------------|
| Year & Volume | Chapter | Title | No | Deadline | Handbook Liaison |
| 2004 Systems | Electrical Systems | | 55 | 3/2006 | Brian Rock |

STANDARDS ACTIVITIES - List and Describe Subjects

None

TECHNICAL PAPERS from sponsored research — title, when presented (past 3 years present, and planned)

None

TC/TG/TRG SPONSORED SYMPOSIA — title, when presented (past 3 years, present, and planned)

2/00 Current Aspects of Distributed Technology (co-sponsored w/TC 9.5)
1/04 distributed Generation, Security and the Hydrogen Economy None

TC/TG/TRG SPONSORED SEMINARS — title, when presented (past 3 years, present, and planned)

2/00 Dealing with Deregulation: What Will Happen to Power Quality (co-sponsored w/TC 8.11)
6/01 Internet Hotels/Data Centers: Opportunities and Challenges of the new Economy
6/02 Buying Electricity in a “Deregulated” Market
1/04 Considerations for the Application of Emergency Power Systems in Buildings
6/05 Expanded Role of Onsite Generation, Recognizing the Limitations of Present Technologies
6/06 Demand Response: How to Get the Untapped Savings in Your Electric Bill

TC/TG/TRG SPONSORED FORUMS — title, when presented (past 3 years, present, and planned)

2/00 Are State Regulatory Constraints on Developing Co-generation and District Energy
1/01 Are We Robbing "Peter Transformer" to Pay "Paul Motor"?
6/01 What Is ASHRAE's Design Role in Times of More Frequent Power Interruptions
1/03 Are You Sure Your Building Can Survive While Operating on Standby Power?

JOURNAL PUBLICATIONS – when published (past 3 years, present & planned)

Submitted By: Marvin Thedford

ASHRAE TC 1.9 Electrical Systems

Minutes of the Meeting
Palmer House Hilton Hotel

Chicago, Illinois
Tuesday, January 24, 2006

1. CALL TO ORDER

Introduction of Members and Guests. The Technical Committee 1.9 was called to order at 3:05 p.m. at the Palmer House Hilton Hotel in Chicago, IL. Technical Committee Members and guests introduced themselves and briefly described their backgrounds. Absent Members are identified on the cover sheet.

Chair Frank Pucciano reviewed the membership list to determine if a quorum was present. Seven of eight members were present. The chair said that a quorum was present.

2. APPROVAL OF MINUTES AND REVIEW OF ACTION ITEMS

Chair Pucciano reported that the draft minutes of the Orlando and Denver meeting were sent out via e-mail and posted on the ASHRAE web-site by Wayne Frazell.

MOTION: To approve the Orlando minutes. PASSED 7-0-0 (a quorum was not present to approve the motion at the Denver meeting)

MOTION: To approve the Denver minutes. PASSED 7-0-0

Report on Action Items:

There were no outstanding Action Items.

3/4. TC MEMBERSHIP and COMMITTEE APPOINTMENTS

Report on changes in voting members.

The chair discussed the rool over roster and is to submit the changes. Wayne Frazel and Steven Faulkner are back on.

5. CHAIR REPORT: Frank Pucciano

Vice Chair Steven Rosenstock reported on the chaiman's breakfast.

ASHRAE is now recording all sessions on DVD and audio, and putting the PowerPoint presentations on a CD and selling them. The strategic plan for ASHRAE research is on the web

site. There was a discussion of key section MBO's (management by objectives). For this year, the two key MBO's are: getting the TC meeting minutes to ASHRAE within 60 days of the meeting, and making the TC web site an active web site. There will be new objectives for next year. Rollover rosters need to be sent to the section head Jim Norman as soon as possible. There was discussion of TC/TG feedback activity reports for this meeting. There was discussion of international member designations for TC/TG/TRG's (and their impacts on quorums). There was a discussion of the annual reporting calendar for section head's and TC's. There are changes to the ASHRAE technical program starting in Quebec City. Due dates for the 2007 ASHRAE handbook (applications) range from March to July of 2006 (this year). Chapters should be approved by now or by the end of the June 2006 meeting. There was a presentation from the Electronic Communications Committee. There was discussion of several items: A database with the goal of "1 name, 1 record." ASHRAE is doing web-based "net meetings" as a pilot program. Within 1-2 years, they may try to offer this to all TC's. Paperless meetings with laptops, in-room network, and a common web site, plus an LCD projector and screen for those without computers. ASHRAE web site won an award. The meeting information can be downloaded as a CSV file (comma separated variable), which can then be put into a spreadsheet program, and you can make customized calendars. -There was a request for high-speed wireless networks in all meeting rooms, and the ECC rep said that they are trying to work with hotels to get the service provided for free.

It was reported that Standard 90.1 will undergo a Scope and Purpose change. Theme for Quebec is "Come in from the cold"

6. SUBCOMMITTEE REPORTS

A. Standards: Kenneth Luther

No Report

B. Research: Larry Markel

Research Activity Committee is still looking for research projects. The research project needs TC Sponsorship and can also be co-sponsored with another TC. The TC needs to develop an implementation plan for research. Larry is to send out the Spievogle Homeland Security report

C. Program: Russell Tiffany

Russel Tiffany discussed the date for future programs. To do a seminar by Quebec, the package has to be in by February 10. A seminar entitled "Demand Response: How to Get the Untapped Savings in Your Electric Bill" was approved by the committee for Quebec Four presentations were proposed. Larry Markel is to present "How to Change Your Building's Electric Use Characteristics and Why". "How to Match Your Building's Peak Reduction with the Utility's Peak and Get Paid for It" is to be presented by Frank J. Pucciano. "Impacts of Efficiency Standards on Demand Response: How Much Can You Really Do" is to be presented by Steven Rosenstock, and the fourth presentation is on "Effective Demand Response through Creative Rate Making" by Jim Earley,

MOTION: To approve the seminar PASSED 7-0-0

D. Handbook: Colleen Smith

Colleen presented the changes to be incorporated into the handbook chapter. The committee reviewed and approved the changes. Colleen is to present the changes to ASHRAE Handbook Committee by March 15, 2006

MOTION: To approve the handbook chapter revisions. PASSED 7-0-0

E. Membership: Leo Stambaugh

No Report

7. Web Site: Wayne Frazell

Wayne said he would put the roster and minutes on the Webb.

8. LIASION REPORTS

Brian Rock, Program reported that the submittal deadline for the Handbook revision was March 15, 2006. He also discussed the voting procedures for submittal

9. OLD BUSINESS

There was no old business.

11. NEW BUSINESS

The chair discussed his plans for the committee and requested ideas to be sent to him by March. He challenged each member of the committee to help develop new Forums, Seminars, Symposium, Research Projects, and recruit new members

13. ANNOUNCEMENT OF NEXT MEETING

Vice Chair Pucciano announced that the next TC meeting would be held in Quebec City at the same time period.

14. ADJOURNMENT

The meeting adjourned at 5:55 PM

Submitted by

Marvin Thedford

Respectfully

submitted,

Marvin
Secretary, TC 1.09

Theford