

**AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING
ENGINEERS, INC.**

**1791 Tullie Circle, N.E./Atlanta, GA 30329
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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 9.9 DATE 11/04/2010

TC/TG/TRG TITLE Mission Critical Facilities, Technology Spaces and Electronic Equipment

DATE OF MEETING 11/04/2010 LOCATION Phone Conference

Voting MEMBERS	YEAR APPTD	PRESENT ABSENT	Voting MEMBERS	YEAR APPTD	PRESENT ABSENT
Robin Steinbrecher	10	P	Ecton English	10	P
Terry Rodgers	09	P	Don Beaty	10	A
Richard Pavlak	08	P	Jack Glass	09	P
Roger Schmidt	09	A	John Bean	10	P
Mukesh Khattar	09	P	Joseph Gangemi	10	P
David Quirk	09	P	Mike Patterson	06	P
Doug McLellan	09	A	Rhonda Johnson	10	P
			Herb Villa	10	A
Corresponding Members		Not Recorded	Francis Mills	09	Int'l

DISTRIBUTION

<i>All Members of TC/TG/TRG plus the following:</i>	
TAC Section Head: Dr. Tom Lawrence	
TAC Chair: Charles Wilkin	
Manager Of Standards	Stephanie C Reiniche
Manager Of Research & Technical Services	Mike Vaughn

These draft minutes have not been approved and are not the official, approved record until approved by this committee.

Opening Remarks

The meeting was opened at 4:00 pm. Jack Glass introduced himself along with Vice Chair, David Quirk and Secretary, Jonathan Spreeman.

The dates of the Winter Meeting in Las Vegas were noted and all members were encouraged to make their hotel reservation at the Las Vegas Hilton. The Housing email was forwarded to all TC 9.9 members. The times of the TC 9.9 meetings were noted: Sunday 5 to 7 pm, Monday 2:15 to 9:30 pm and Tuesday 1 to 5 pm.

It was noted that the new Web Site is up and running and that the Albuquerque minutes have been posted. Members were asked to bring their ideas regarding use of Groupsite to Las Vegas for further discussion.

Jack gave an update on membership. He noted that the website and Groupsite link have generated contacts interested in joining TC 9.9. (12) names have been added to the email list and forwarded to ASHRAE for addition to the official roster. The new process involves a rolling addition by ASHRAE with new members being designated Provisional Corresponding Members for 2 years.

Agenda:

Programs Subcommittee - Vali Sorel, Chair

- **Programs for Las Vegas**
- **Seminar 17** - "Codes and Standards that Influence Mission Critical Facilities", Craig Crader – session chair – **Monday, 1/31, at 8 a.m.**
- **Conference Paper Sessions 9** - : "Data Center Studies", Ecton English – session chair – **Monday, 1/31, at 11 a.m.**
- **Forums:** - the Forum, "Failure Mode and Effects Analysis and Risk Management in Data Centers" will be held during the TC meeting on , **1/31 from 4 to 5 p.m.**
- **Programs for Montreal**
- It was reported that several Conference Papers have been selected for Montreal. Please see the key dates below.
- **2010 Montreal Deadlines**
 - June 21 — Track Announcement/Call for Papers
 - Sept. 17 — Technical Papers Due for Review**
 - Sept. 17 — Conference Paper Abstracts Due**
 - Sept. 17 — Conference Paper Session Request**
 - Oct. 1 — Conference Paper Abstract Accept/Reject Notifications**
 - Dec. 17 — Conference Papers Submitted for Review

- **2010 Las Vegas Deadlines**

Dec. 10 — Upload of PPTs Begin

Research Subcommittee - Robin Steinbrecher, Chair

- It was announced that Mike Patterson will be taking over as Chair of the Research Subcommittee. Robin Steinbrecher will devote more time to assisting with the IT Subcommittee.
- The RTAR for humidity research did not go out for bid, funding was not approved.
- The RTAR for contamination research was returned with comments. It was resubmitted by August 15, and will be reviewed by ASHRAE in December.

Handbook Subcommittee - Doug McLellan, Chair

- John Peterson reported for Doug.
- The subject of metrics for the Handbook chapter was discussed. This will be on the TC agenda for the Las Vegas meeting.

Standards Subcommittee - 90.1- Rick Pavlak, Chair

- Rick gave a brief overview of Standard 90.1 and the impact on data centers.
- User manual is still in process by an outside contractor and has not been released for review yet. The exact date of release is not known.
- 90.1 2010 has been published and available on line.
- It was noted that Facebook had contacted ASHRAE, critical of the approach toward data center energy. The official ASHRAE response encouraged Facebook to get involved with the 90.1 process and specifically TC 9.9. The letter from ASHRAE President Lynn Bellenger has been posted on our webpage.

IT Subcommittee – Roger Schmidt, Chair

- Robin Steinbrecher reported for Roger.
- Parallel contamination sampling is being conducted in several member data center sites.
- A Title-Purpose-Scope document was submitted, suggesting development of classes of IT equipment. The IT subcommittee was asked to review the document and to report back.
- Update on Power Trends book – work is still under way by the IT manufacturers. Expect completion by year end.

Publications Subcommittee – Don Beaty, Chair

- Economizer book - lead by Frank Morrison. Final editing and graphics.

- Green tips - lead by Jack Glass – Reviewed and Approved by the Voting members. It has been sent to ASHRAE Publishing.
- Robin Steinbrecher reported on the beginning of a book about thermal control systems in IT equipment.

SPC – 127 - Fred Stack

- The next meeting of the Committee will be on November 22.
- Minutes have been posted on the SPC -127 Groupsite
- Fred gave an update describing the proposed changes for rating capacity and the expansion to include more equipment.

The next meeting is scheduled for the first Thursday of December.

The call in information will be distributed