

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

**1791 Tullie Circle, N.E./Atlanta, GA 30329
404-636-8400**

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 10/07/2010

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

DATE OF MEETING 10/07/2010 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	P
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	P
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.

It was noted that in addition to the Agenda in the email invitation, Ecton English would give an update about the new TC 9.9 Website.

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 and only online reservations would be accepted. It was requested that the housing email be forwarded to all members. The times of the TC 9.9 meetings on Sunday, Monday and Tuesday were noted.

Agenda:

Programs Subcommittee - Vali Sorel, Chair

- **Programs for Las Vegas**
- **Seminar 17** - "Codes and Standards that Influence Mission Critical Facilities", Craig Crader – session chair

- **Conference Paper Sessions 9** - : "Data Center Studies", Ecton English – session chair

- **Forums:** - No Forum was submitted by the deadline. However, a Forum on Reliability and failure analysis will be held during the TC meeting on Monday

- **Programs for Montreal**
- It was reported that (7) Conference Papers have been submitted for Montreal. At this time, (2) have been notified that they were not accepted.

- **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

- 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 is under review by ASHRAE.

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 being drafted by outside contractor and has not been released for review yet. It is now expected in November. Send Jack an email if you want to participate in a sub-committee.
- 90.1 asked for help on interpretations to the exemptions. Drafts of several Interpretations were sent to the voting members for review and approval.

IT Subcommittee – Roger Schmidt, Chair

- Parallel contamination sampling is being conducted in several member data center sites.
- The suggestion made on the September call with regard to making the Thermal Guidelines an ASHRAE standard is still under review and discussion by the Subcommittee. A Title, Purpose and Scope document would be forthcoming.
- Update on Power Trends book – work is still under way by the IT manufacturers. Expect completion by year end.
- The Subcommittee was asked to address two issues raised at a recent National Laboratory workshop: Broaden the temperature and humidity ranges to eliminate compressor cooling and develop recommended temperature ranges for liquid cooling.

Publications Subcommittee – Don Beaty, Chair

- Economizer book - lead by Frank Morrison. Final editing and graphics.
- Green tips - lead by Jack Glass. Is ready to be sent to the Voting members for review. Target is to deliver the final draft to ASHRAE publishing by the end of the month.

TC Networking Options and Webpage Update – Ecton English

- The new Web page is up and populated with information.
- Groupsite viewed as preferred option for networking. It's free. <http://tc99.groupsite.com> This is a demo for everyone's review. TC9.9 members can review.

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

The call in information will be distributed