

**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 12/11/2011

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

DATE OF MEETING 12/08/2011 LOCATION Phone Conference

Voting MEMBERS	YEAR APPTD	PRESENT ABSENT	Voting MEMBERS	YEAR APPTD	PRESENT ABSENT
Robin Steinbrecher	10	P	Ecton English	10	A
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	Rhonda Johnson	10	P
Chris Kurkjian	11	P	Herb Villa	10	P
David Moss	11	P	Francis Mills	09	Int'l
Corresponding Members		Not Recorded			

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 EDT. Jack Glass introduced himself along with Vice Chair, David Quirk.

Jack reviewed the dates of the Winter meeting in Chicago from January 21 to 25 at the Palmer House Hilton. He noted the Technical Program is now available on the ASHRAE site. The times of the TC 9.9 meetings are Sunday at 5 pm and Monday at 2:15 pm.

Topics for the Committee meeting in Chicago were reviewed. Time will be allocated for the revised Thermal Guidelines, the new Water Cooling Guidelines, SSPC 90.1 issues and discussions of future Program topics. In addition, other agenda items will include SPC 127, SPC 189, current data center trends, PUE definitions, NFPA data center issues and an update on industry corrosion surveys.

Agenda:

Programs Subcommittee – Nick Gangemi, Chair

Nick stated that (2) Conference Papers and (2) Seminars are on the agenda for Chicago. Nick reviewed key dates for Chicago and San Antonio. Dates for submissions for both conferences are posted on the TC 9.9 Website.

Research Subcommittee – Mike Patterson, Chair

Mike reported that the Humidity and ESD research study (1499) did not proceed due to disagreement over contract terms. It could be rebid in the Spring of 2012.

The research project 1487, Fluid Dynamics for rack-level cooling, should be ready for review and approval by TC 9.9 before the Winter meeting.

A survey will be sent to the TC members for their input regarding research topic priority.

Handbook Subcommittee – Chris Kurkjian, Chair

It was reported that the editable version of the handbook chapter was available and downloaded from the ASHRAE site.

Members of the IT Subcommittee were requested to assist in updating the chapter with the most current information from the Power Trends book.

Standards Subcommittee - 90.1- Rick Pavlak, Chair

Rick reported that there are 5 or 6 CMP's under review related to data centers. These will be reviewed with the TC 9.9 membership in Chicago.

Rick reported that the 90.1 / TC 9.9 Working Group continues to hold regular conference calls.

IT Subcommittee – Roger Schmidt, Chair

- The revised Power Trends book was sent out for review and approval by the Voting members. Comments received are under review for inclusion in the book.
- The Thermal Guidelines book will be revised next to include the new information about the air and liquid temperature ranges described in the new White Papers.
- A new White Paper about IT Equipment Thermal Control is in progress
- Members of the IT Subcommittee have been engaged with the European Code of Conduct group to align their recommendations with the ASHRAE guidelines. This will minimize confusion in the industry.

Publications Subcommittee – Don Beaty, Chair

- It was reported that preparations are being made for the revisions to the two books mentioned above.

SPC – 127 - Fred Stack

No update was available for SPC 127

Website Update – Ecton English, Webmaster

- It was reported that we now have the ability to track the number of visitors to our site and the number of White Paper downloads.
- The ability to search the TC 9.9 site is now available.
- Content updates were requested of the Subcommittee Chairs.

Discussion

Jack gave an update on membership and noted that there are now 37 Provisional Corresponding Members on the roster. More names are pending addition.

The call concluded at 5:00 pm EDT.

Members will be notified of the next Conference Call

The call in information will be distributed