

**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 11/03/2009

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

DATE OF MEETING 11/03/2009 LOCATION Phone Conference

Voting MEMBERS	YEAR APPT D	PRESENT ABSENT	Voting MEMBERS	YEAR APPTD	PRESENT ABSENT
David Moss	06	P	Chris Malone	06	A
Terry Rodgers	09	P	Tom Davidson	08	P
Richard Pavlak	08	P	Jack Glass	09	A
Roger Schmidt	09	A	Tim McCann	06	P
Mukesh Khattar	09	P	John Groenewold	06	A
David Quirk	09	P	Mike Patterson	06	P
Doug McLellan	09	P	Francis Mills	09	Int'l
Fred Stack	08	P			
Corresponding Members		Not Recorded			

DISTRIBUTION

<i>All Members of TC/TG/TRG plus the following:</i>	
TAC Section Head: Van Baxter	
TAC Chair: Don Brundage	
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.

Roster Voting Member Role Call

- Quorum present 9/4/0/1 (Present / Absent / Int'l / Chair)

Programs Subcommittee report by Vali Sorel

- Program for Orlando
 - There are three transaction sections approved
 - *Transactions 2: High Density Cooling Issues Update* Chair E English
 - *Transactions 5: Climate Impact on Data Center Efficiency* Chair T Rodgers
 - *Transactions 9: Contamination Issues in Datacom Environments* Chair J Prisco
 - Only one Seminar was approved
 - *Seminar 56: Integration of Server and Facilities Controls in Data Centers for Lower Costs and Higher Efficiency* Chair Mike Paterson
 - One Seminar was rejected
 - Bob Sullivan proposed he lead a Seminar regarding how to utilize the entire server environmental operating range.
 - The Forum was rejected, but it was suggested we allocate some of our TC meeting time to this effort
 - The Forum was to led by Vali and is on LEED Requirements for Data Centers - Are special point guidelines needed
 - The TC 9.9 meeting schedule is as follows

TC 9.9 Program/ Handbook/ Research	Sunday	5:00-7:00p
TC 9.9 General Meeting	Monday	2:15 -9:30p
TC 9.9 Long-Term Planning Workshop	Tuesday	1:00-5:00p
SPC 127 Workshop	Tuesday	2:00-5:00p

- Program for Albuquerque
 - One Transaction Section with three papers has been submitted by M Scofield. With a theme of Evaporative Cooling of Data Centers
 - We have been approved for four Conference Paper Sessions containing 10 papers. Vali solicited volunteers to be session chairs as well as Reviewers. The list below is after these session chairs have volunteered and been accepted – Thanks to all for the quick response.
 - [Session 11-1: Temperature Requirements in Data Centers: Mike Patterson](#)
 - [Session 11-2: The Importance of Air Delivery in Data Centers: Herb Villa](#)
 - [Session 11-3: Energy Efficiency Issues in Data Centers: Nick Gangemi](#)
 - [Session 11-4: How to Operate Your Data Center Successfully: Craig Crader](#)
 - No Forum is planned
 - No Seminars have been submitted yet, but there is plenty of time.

ASHRAE 90.1 Mechanical Sub-committee by Rick Pavlak

- Richard Pavlak has been formally named as the liaison to the 90.1 MSC
- Rick has worked with the MSC in reviewing the 51 comments from 13 commenter's from the public review for the BU addendum. He is not allowed to share these comments with our committee, but he did summarize the issues into three areas.
 1. Confusion on the wording as to when there is an excepteion to air economizers

- 2. Confusion on the wording of the exception to water economizers regarding the availability of water
- 3. The lack of an alternative compliance path similar to the table 6.3.2
- Rick's working group is sending me suggested recommendations that the voting members of TC 9.9 will review and vote on sending to the 90.1 MSC.
- Some members on the phone asked to send their original comments on the public review to all corresponding members – I agreed to do this if they sent them to me with those specific instructions.

Handbook subcommittee report

- The current draft of the suggested changes to the Handbook will be posted on our web site for members to review and comment. We will have a final review and vote in Orlando.

SPC 127 Subcommittee

- Nothing to report. The first meeting will be in Orlando.

Research subcommittee report By Robin Steinbrecher

- The RTAR workstatement for the ESD program is nearly complete. The working group is meeting next week to finalize their recommendation which will then be put to a vote the week of Nov 16th.
- The RTAR for the gaseous contamination program being lead by PJ Sing is targeting having a final proposal ready for Orlando for vote by TC 9.9. This will then be submitted to ASHRAE for their approval in May.

DOE Save Energy Now Data Center Best Practice Awareness Training Program By Bill Tschudi

- Project Performance Corp (PPC) has been selected by DOE to handle
 - Site approval and logistics
 - Assignment and co-ordination of speakers
 - 1. Don Beaty has volunteered to handle the lead in speaker certification and training. Once a list is generated PPC will just select from the list
 - Assist in promotion of the events
- The training material is not yet finalized. Significant editing was required to shrink the material to a one day event and remove all commercialization. None of the material has speaker notes yet. We have already had two training sessions with this preliminary material, but it has yet to be approved by the TC 9.9 voting members. Within the next week the voting members will be provided access to the current materials being used so they can vote approval. We will then focus on enhancements and additions to this set of materials.
- There is significant interest by potential hosts. These all need to be referred to PPC for processing. These include Energy Trust of Oregon, Austin Energy, several Federal Agencies, a few ASHRAE chapters.

Energy Management Practitioner Program by Bill Tschudi

- The criteria for the minimum background required for participation is almost complete
- Those that qualify will have to take either a 1 or a 3 day training course (with certification testing) depending on the level of participation desired
- A National Body will provide the certification. Anticipate 6 months before this process can begin

The next phone meetings will be

December 15 @ 4:00 PM EST