

ASHRAE TC 1.10 COMMITTEE MINUTES
Las Vegas, NV
February 1, 2011

The TC 1.10 meeting was called to order by Chair Riyaz Papar at 3:00 PM.

1. Chair Riyaz Papar welcomed all members and acknowledged the visitors.
2. Self-introductions were made by all present. TC 1.10 has 12 Voting Members, including 1 non-quorum member, of which 9 were present. Hence, a quorum was established.
3. Secretary Dharam Punwani read the TC 1.10 mission statement.
4. Copies of the minutes of the meeting held in Albuquerque (June 29, 2010) were distributed to the attendees of the meeting. Harold Smith made a motion that the minutes be accepted as written. Dharam Punwani seconded the motion. The motion passed (For: 8, Against: 0, Abstain: 0, Absent: 3, CNV = Chair Not Voting).
5. Sub-committee Reports:
 - a) **Programs:** Rich Sweetser
 - i) Seminar 29, “Low Energy Design for Casinos: Integrating CHP Systems” had 75 in attendance.
 - ii) Rich Sweetser made a motion that the TC should submit the following session for the Montreal meeting:

Sponsored Seminar – CHP Done Right for Net Zero Energy Buildings
Chair: Richard Sweetser
The motion was seconded by John Andrepont and approved unanimously by all voting members present
 - iii) John Andrepont made a motion that TC1.10 should co-sponsor the following seminars for the Chicago meeting:
 1. “Centrifugal & Absorption Chillers,” co-sponsored by TC6.2 (District Energy) and TC 9.2 (Industrial Air Conditioners)
 2. “TES Case Studies Covering a Range of Applications,” sponsored by TC 6.9 (Thermal Energy Storage)
The motion was seconded by Birol Kilgis and approved unanimously by all voting members present
 - iv) Birol Kilgis suggested the following conference paper for the Chicago meeting:

“CHP in Circular Economy”
No vote was taken because a conference paper does not require voting.

The deadline for submitting the paper is April 18. Maria Todorovic and Birol Kilkis will take care of all the details

TC1.10 has previously voted to sponsor a Transaction session entitled “Understanding the Carbon Footprint of CHP Systems.” These papers will be presented in Las Vegas.

b) Research: Abdi Zaltash

i) ASHRAE has will be sending our bids for 18 project, including the TC1.10 work statement entitled “CHP Design Guide – Update to the Cogeneration Design Guide (1996).”

ii) Maria Todorovic will submit an RTAR for “Solar-Assisted Geothermal CHP Systems.”

iii) Dharam Punwani will submit an RTAR for “Developing Methodology for Carbon Emissions Displaced by Combustion Turbine Inlet Cooling (CTIC).”

All RTARS approved by the TC are due to ASHRAE by May 15.

c) Handbook: T. Wagner (for L. Chamra)/A. Dwyer

i) Revised CHP Chapter (#7) will be due March 14

ii) Revised CTIC Chapter (#17) will be due March 14

d) Standards: Mark Davis

– The standard SPC 204, “*Method of Test for Rating Micro Combined Heat and Power Devices*” does not have a good picture about the rating standard and plans to have draft ready for the Montreal meeting.

e) Membership: The roster is complete and correct. Membership updates to the roster will be worked at the Montreal meeting.

f) Web Site: Dragos Paraschiv, webmaster, reported that the TC 1.10 website is up to date. Please contact him with any suggestions for webpage content.

g) CTIC: Annette Dwyer reported that the updated chapter (#17) for CTI will be submitted for the handbook and also a RTAR will be prepared as reported above by the Research Subcommittee

Chairman’s Report: Riyaz Papar reported on items from the TC Chair’s Breakfast.

7. Old Business:

i) Lucas Hyman is continuing to develop the CHP short course

ii) TC chair can nominate one TC member to audit a short course on a complimentary basis

8. New Business: None

9. Adjourn: With no other business to consider, John Andrepont moved that the meeting be adjourned. Lucas Hyman seconded the motion and it was unanimously by all present.

Minutes prepared and respectfully submitted by Dharam Punwani, TC 1.10 Secretary.

Mission of TC 1.10

TC 1.10 is concerned with cogeneration systems, their cycles, and components including heat recovery, energy conversion, and system integration, including for example Combustion Turbine Inlet Cooling (CTIC). The systems provide both power (electric and/or shaft) and thermal energy (heating and/or cooling) and are variously known as cogeneration systems; trigeneration systems; combined heat and power (CHP); combined cooling, heating, and power (CCHP); and integrated energy systems (IES).