

ASHRAE TC 9.9
Minutes for 9/23 phone call meeting
4:00 PM EST to 5:00 EST

- Research RTAR's in process
 1. ESD (Robin Steinbrecher) Efforts on the work statement continue. Mark Hydeman continues with a leading effort. David Swenson and John Kinnear have agreed to write a white paper on the topic.
 2. Proposed work statement to investigate the efficiency and effectiveness of various types of humidifiers (4) continues with a first draft promised before the next phone meeting. (F Stack)
- Standards – Recommendation for change to 90.1 (Rick Pavlak)
 1. Rick has promised to send the current TC 9.9 recommendations to the four primary suppliers to the Data Center Industry for comment before the end of the week. FS will send a copy to all voting members for review at that time as well.
 2. M Hydeman provided an update regarding the 90.1 committee. They meet next Thurs to discuss changes underway. Two that are proceeding through the various reviews and will be eventually submitted for public review are
 - i. Changes to section 2.3 which is the exclusion clause for process industries. This is what we are addressing in #1 above
 - ii. Rules restricting the use of large Air Cooled Chillers verses Water Cooled Chillers
- Programs
 1. Books
 - i. Maintenance V Sorel reports good progress. The hold up is primarily a graphical tech writing issue. We need the psychrometric chart in metric units for the books.
 1. Thermal Guidelines. Update temperature and humidity ranges + Add Metrics (opportunity to include a couple of paragraphs about "How to show conformance with the Thermal Guideline") (Vali Sorell)
 2. Design Considerations (Re-introduce Vali's original write-ups for Section 5.3.4) (Bob Blough)
 3. Energy Efficient Data Center (Re-introduce Vali's and Magnus' original write-ups for multiple sections) (Nick Gemgani)
 - ii. Measurements (Tahir Cader) 5 of 10 Chapters to tech writer. Full first draft expected by the end of October.
 - iii. Contamination (Joe Prisco) no update
 - iv. Ultra Green Data Centers (Roger Schmidt) no update
 - v. Green Tips (Jack Glass) We have 6 writers and 24 topics structured within the 7 Categories as outlined in the DOE PRO assessment tool. These will be posted on our web site.
 2. Seminars / Transactions / Forums
 - i. Chicago
 1. S – Air Flow Management & rack enclosure (Kishor Khankari) part 1 & 2 approved
 2. S – Sustainable Guidelines (Mike Patterson) approved part 1 & 2
 - a. Sustainable Designs for the future
 - b. LEED Data Center
 - c. 90.1 update
 - d. Standard 127 – 2007 update
 - e. Thermal Guidelines: Updates
 - f. Others
 - ii. T Liquid Cooling update 3 Transaction papers approved
 - iii. T High Density Air flow mgt (Jeff Rutt) 2 transaction papers approved
 1. F – Do we need a standard for enclosed rack & in-row cooling technologies? (Open) No activity – Vali will investigate

- iv. Louisville
 - 1. Call for Papers
 - a. Gas Contamination (Joe Prisco) Chris Mueller from Purafil and Fred Stack have drafts to submit
 - b. Free Cooling (Terry Rogers) Bill Tschudi has a paper in process
 - c. Liquid Cooling (Jeff Trower) No update
 - d. High Density Update (John Bean) One draft paper has been received.
 - e. Telecom Cooling (Magnus Herrlin). We have two good abstracts, and I'm still debating whether I should submit one as well.
 - 2. Seminars – Ultra Efficient Data Center (Kishor Khankari)
 - 3. The Nicerta Workshop training held in Niagra Falls was a big success 84 people attended. The next and final session is in NYC and is overbooked at 130 persons. We may move up the date to get a larger hosting facility.
 - 4. DOE Awareness Training Workshops (Bill Tschudi & Magnus Herrlin & Terry Rogers)
 - i. Steve Comstock @ ASHRAE would like to host the first Seminar
 - ii. What are the details of the agreement? FS to contact Rodger for details
 - iii. Need a team to mesh the presentations together.
- Handbook
 - 1. Chapter 17 for CD-Plus (Doug McLellan) Missed Sept 1 deadline so we are now focused on the next deadline.
 - Strategic Plan (Fred Stack) No progress. Call for volunteers.
 - New item – Review EPC Guide (Lead Geof Jeffers) CEC commissioned LBL to sponsor this document which has been prepared by ASHRAE TC9.1, The Green Grid, The Uptime Institute, 24x7, The EU, the Critical Facilities Roundtable and the Silicon Valley Leadership Group. They are asking for our input and endorsement. Jeff will coordinate the input from the TC 9.9 committee. Members volunteering to be part of this sub-committee: John McLellan, Magnus Herrlin, Ishtiaq Chisti, Nick Gangemi, Kishor Khankari, Bill Tschudi, Vali Sorrel, John Peterson
 - WEB page is under construction. Look to have it updated within the month

Next phone meeting is scheduled for October 28, 2008 at 4:00 EDT.