TC/TG/TRG MINUTES COVER SHEET

TC/TG/TRG NO.: TC 9.01

TC/TG/TRG TITLE: Large Building Air-Conditioning Systems

DATE OF MEETING: January 23, 2018

LOCATION: Chicago, Il

MEMBERS PRESENT

<table>
<thead>
<tr>
<th>Name</th>
<th>Term End</th>
<th>Members Absent</th>
<th>Term End</th>
<th>Additional Attendance</th>
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<tbody>
<tr>
<td>Alonzo Blalock</td>
<td>2019</td>
<td>John L. Kuempel Jr,</td>
<td>2020</td>
<td>Corresponding Members:</td>
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<td></td>
<td></td>
<td>National Settings Chair</td>
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<td>Bill Artis</td>
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<td>Jay Eldridge, Vice Chair</td>
<td>2020</td>
<td>Phil Trafton</td>
<td>2019</td>
<td>Mark Fly</td>
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<tr>
<td>Steve Duda, Research/Honors</td>
<td>2021</td>
<td>Jeff J. Traylor</td>
<td>2021</td>
<td>Lee Millies</td>
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<td>and Awards Sub-C Chair</td>
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<td>John Vucci</td>
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<td>Charles Henck, Standards Sub-C Chair, Secretary</td>
<td>2018</td>
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<td>Guests:</td>
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<td>Doug Cochrane</td>
<td>2018</td>
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<td>Gene Strehlow</td>
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<td>Kelley Cramm</td>
<td>2018</td>
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<td>John Molinar</td>
<td>2019</td>
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<td>Lynn Werman</td>
<td>2018</td>
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<td>Dennis Wessel</td>
<td>2020</td>
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DISTRIBUTION: All Members of TC/TG/MTG/TRG plus the following:

TAC Section Head: Dr Krishnan Gowri kgowri@mail.ashrae.org

Committee Liaisons As Shown On TC/TG/MTG/TRG Rosters (Research, Standards, ALI, etc.)

Mr Michael R Vaughn PE, Manager Of Research & Technical Services MORTS@ashrae.net
Mr Michael S Heinrich CTTC Chair michael.heinrich@westplainsengineering.com
TC 9.01 Large Building Air-Conditioning Systems

Meeting Minutes

Meeting Date: January 23 2018
Chicago, Il

Call to Order
Chair Alonzo Blalock called the meeting to order at 1:00 PM local time,

Welcome and Introduction of Members And Guests
Self-introductions of members and guests were made around the room as the attendance roster was circulated. The Chair welcomed all members and visitors. A quorum was achieved.

Voting Members: 10 Present, 1 Absent, Quorum was achieved
Voting Non-Quorum Members: 0 Present
Corresponding Members: 4 Present
Society Liaisons: 0 Present
Staff Liaisons: 0 Present
Guests: 1 Present

Note: Voting Non-Quorum members are voting members if present, but do not count against quorum if absent.

ASHRAE Code of Ethics: The chair reviewed the Code of Ethics
In this and all other ASHRAE meetings, we will act with honesty, fairness, courtesy, competence, integrity and respect for others, and we shall avoid all real or perceived conflicts of interests. (See full Code of Ethics: https://www.ashrae.org/about-ashrae/ashrae-code-of-ethics.)

Minutes from Long Beach 2017 meeting were reviewed
a) One correction Lee Millies on list of attendees twice.
b) Long Beach Minutes - Werman made a motion and Romero second – 9/0/1 CNV motion passed

Agenda Comments / Updates (Blalock)
No Additions to Agenda requested.

Chair’s Comments and Section 9 Report (Blalock)
a. New technology portal with on line access to ASHRAE documents
   i. Subscription for some items
   ii. 90.1 is the first and preview software for free
b. New ASHRAE terminology glossary at ashrae.org/terms
c. Request to cover the code of ethics at the beginning of meetings.
d. We have 10 of 11 members – quorum achieved

TC 9.1 is the responsible committee for the development of Handbook Chapters;
ASHRAE Liaison Reports

None

TC 9.01 Subcommittee Reports

a. Programs (AB for Kuempel)
   i. We had two programs in Chicago.
   ii. There is a new submittal process for programs, but the information is the same.
   iii. AB worked on a job that had a large building that was re-worked two floors at a time. AB may be able to add how the hurricane Harvey affected the life of the building.
   iv. Already 150 have been submitted for Houston.
   v. Houston deadline is Feb 9.
   vi. Chicago – 115 submitted and 67 accepted for seminars
   vii. Discussion of possible seminars

Las Vegas – the Best of the Engineers Notebook. Edition II. Steve thought that a version III of this would be a good idea for a year from now. Kelly Cramm agreed to chair.

b. Honors and Awards (Duda)
   i. Distinguished service and exceptional service are points based, but are not automatic at this point. – Attach Steve’s report.
   ii. Lee Millies became a fellow at this meeting. Congratulations. Steve has some more candidates in mind.

c. Membership / Upcoming Roster Revisions (AB)

d. Standards (Henck)
   i. ASHRAE Standard 16-2014 Reaffirmation or update – Completed vote at last meeting

e. Handbook Subcommittee (McKew): (Need to vote by Jan 2019)
   i. Chapter 1 to 5 for completion publication 2019 – Reviewers Primary / Secondary
ii. Howie could not be here, but is working on a design book with support from the committee. HVAC systems design manual update.

iii. Handbook chapter one has been sent to the members. An approval vote is needed, but we can put it off until Houston or possibly Atlanta.

iv. Chapter 1-5 were reviewed for status, but we appear to be on time for the handbook.

v. Doug C – Pub Ed is not really concerned that we have too many pages since we are going to more electronic.

vi. There was a discussion of the electronic version. There is a PDF download.

vii. John Vucci agreed to help Howie with the handbook details in the TC since Harris cannot continue.

f. Research Subcommittee Breakfast Report. (Duda)

Reviewed the Research committee meeting. Only two RTARs submitted and both were approved. Two work statements needed re-work.

a. The service to ASHRAE research award – Brian Selvetti TC 6.7

b. PMS meetings are open.

c. Unsuccessful bidders cannot be voting members of the PMS.

d. People who write the work statement can vote on it.

e. Changes in scope mid-stream must go back to the TC for votes.

f. Reports at the end for research disposition need to be completed and are often not getting done.

g. RAC added one more deadline 15 Mar - May - Aug – Dec for RTARs

h. We don’t have anything open for research. Steve is looking for ideas

   i. Can we re-open the RTAR for the effectiveness of various openings? What is a permanent opening? Size, location, etc? Standard 15 shot down the work statement?

   ii. Discussion

   iii. VRF committee has been looking at adjoining spaces

   iv. The committee was in favor of bringing it up. Steve will send the information out to the TC, and we can vote by letter ballot.


i. Publications

   a. John Vucci is on an ASHRAE design guide that will be free to 3rd world countries. Chiller plant design is the topic. Refrigerant is a key issue for deaths. Maintenance and operation will also be included.
Old Business: None

New Business: None

TC/SSPC Liaison Reports

- TC 403 – Ventilation – Duda – They are heavy in to research. Vent rates for auto parking garages. Better vehicles may now warrant lower rates.
- Standard 202 - Commissioning Process for Buildings and Systems (Blalock) Working on revisions. International green code will just refer to ASHRAE 189. There will be a 1.3 commissioning training for O&M. 1.4 systems manual.
- TC 5.1 – Fans (Eldridge) - How 90.1 will regulate fans? FEG and FEI discussion
- TC 5.06 – Control & Smoke (P Trafton) - no report
- TC 6.1 – Proposing an RTAR to study corrosion allowances for steel pipes. Dennis thought that it had been done a long time ago. (20 years?)
- TC 7.01 Integrated Building Design (Romero) – Monday AM meeting time. Working on handbook chapter to include a better outline for integrated design.
- TC 7.09 – Building Commissioning (Blalock) - There has been a agreement BCXA and ASHRAE to have an ASHRAE pub for building owners who want to hire commissioning agents. Check lists, deliverables, and aimed at owners.
- TC 8.07 - Variable Refrigerant Flow (Artis) – Dec issue of the Journal had an advertisement with the DOD VRF rejected statement on it. Comstock said that they cannot reject adds because it is covered by the FTC. A lot of discussion about that. A presentation was given on adjoining spaces.
- TC 9.06 – Healthcare (Blaylock) There was discussion on about a seminar about humidification. Dr. Stephanie Taylor has presented to chapters on the need to establish min levels at 40%. (“40 is the new 20”, Seminar 13 at this conference) A very good speaker.
- TC 9.08 – Building HVAC Applications: (Kuempel / Molnar) – Have 8 handbook chapters.
- TC 9.09 Mission Critical (Pavol) - Data Centers. No report
- TC 9.10 – Laboratory Systems (Kuempel/Duda) - No report
- TC 9.12 – Tall Buildings (Wessel) Discussion on the climate conditions at the top of a building are often not correct.
- SSPC 15 Mechanical Refrigeration Safety (Vucci / Johnson) - Lot of discussion on D & H addendums. Addressing 2L refrigerants for flammability and ventilation. They are soon going out for public review.
- SPC 188 Legionella in HVAC (Milles) -

For the Good and Well Being…

Adjournment at 3:30 PM
I. Attachments:
   a) TC 9.01 Honors & Award Report

End of Minutes

Respectfully submitted by:
Charlie Henck, Secretary