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TC/TG/TRG MINUTES COVER SHEET

TC/TG/TRG NO.: **TC 1.12**

TC/TG/TRG TITLE: **Moisture Management in Buildings**

DATE OF MEETING: **January 23, 2016, 1pm to 3pm.**

LOCATION: **Hilton Orlando**

TC 1.12 Moisture Management in Buildings
Meeting Minutes (DRAFT)
June 28, 2014, 1pm to 3pm.
Sheraton Downtown Seattle, WA

1. Call to order – George DuBose, Chair

The Chair called meeting to order and read the TC 1.12 title and scope statement.

2. Self-Introduction of members and guests

Those present introduced themselves. Twelve voting members were present. Quorum was established.

3. Review Agenda

No changes were made to the agenda.

4. Approval of minutes from Atlanta June 2015 meeting

No comments were offered regarding the meeting minutes. Ray Patenaude moved to approve the minutes. Norm Nelson seconded. *Minutes approved (10 approved, 0 abstentions, 0 against).*

5. Chairman's Report – George DuBose

The Chair stated that T.C. 1.12 has a new website, and that it has been very well done. The Chair introduced T.C. 1.12's section head Amir Jokar, who stated that the T.C. Activity Form was due the following Tuesday. Ray Patenaude encouraged the committee to reinforce the importance of building enclosure in ASHRAE's scope to the new ASHRAE president.

6. Research – Fitsum Tariku

- a. Status update: – *Multidisciplinary Task Group "Damp Definition"* – As Lew Harriman reported in the subcommittee meeting, the Task Group has been working for two years on this issue and is currently assembling a report regarding the health outcomes of occupants of damp buildings. They are providing a description of this type of building, suggesting how a person might know if he had a building with elevated health consequences. The committee plans on providing a description, not a definition, of such a building. The report will outline the parameters for measurement and provide threshold values. Note that these parameters and threshold values are not for mold, but for dampness. Lew Harriman stated that we still do not understand causation, but we do have correlations. The report will be ready to deliver to Tech Council by June. *Report will be submitted to Tech Council by June meeting. Recommendation will be that ASHRAE NOT provide a "definition" for damp buildings but should instead provide a "description."*
- b. Status update – *DOAS design guide 1712-RP* – Three draft chapters of a seven-chapter book have been reviewed. Contractor is proceeding and a draft of the complete book is expected in January of 2017. *Research is ongoing.*
- c. Status update – *Pool evaporation work statement (WS-1566)* – *No update (Steve Cornick was not present to provide an update).*
- d. Status update – *1718-WS: Development of a method to determine the moisture transport properties of a roof shingle system under real conditions* – Sam Glass stated in the subcommittee meeting that the RTAR was drafted through TC 4.4 and was accepted by RAC with conditions. Manfred drafted a work statement. It went through a couple revisions through 4.4. and was voted in by letter ballot last summer. WS returned from RAC with comments. The Work Statement therefore needs to be revised and should proceed only with co-funding from industry. *Work Statement is on hold pending co-funding. Manfred Kehrler still wants T.C. 1.12 to co-sponsor.*
- e. Status update – *RTAR: A method to determine residential whole home dehumidification capacity requirements.* TC 1.12 (TC 8.10 co-sponsor) – Sam Glass stated that this R-TAR will be put on hold or altered in order to account for how much water is removed by air conditioning and by dehumidification in actual buildings (as opposed to investigating this issue through modeling). In

the view of the NREL researchers consulted, the best way of pursuing the modeling aspect of the research is through ACA, not ASHRAE. Sam Glass intends to develop RTAR on actual research on actual houses. *Ongoing.*

- f. Status update – *RTAR 1761 Modeling Water Vapor Permeation in Pipe Insulation (TC 1.8)* – Gordon Hart indicated that it was rejected by RAC but will be resubmitted with a detailed literature review, co-funding options, and a detailed technical approach. During the Subcommittee meeting Sam Glass suggested getting clarification on the nature of the RAC rejection: whether it was to the topic itself or to how the RTAR was written. Manfred Kehler is pursuing a re-write. *On hold pending research project by TC 1.8 (research project 6046)*
- g. Status update: Potential new RTARs
 - i. Techniques for Limiting Indoor Dampness and Microbial Growth During Unoccupied Hours and In Buildings That are Seasonally Occupied – *Terry Weston is heading this up.*
 - ii. Humidity Loads Generated in Non-residential Buildings – *Steve Cornick is not present to provide an update.*
 - iii. Techniques for Limiting Indoor Dampness and Microbial Growth in Heritage and Special-purpose Buildings – *Lew Harriman is pursuing this RTAR.*
 - iv. New RTAR measured water activity and drying – Ed Light – No progress has been made on this RTAR. George DuBose stated during the subcommittee meeting that the restoration industry would benefit the most from this research (because drying buildings saves on claims costs) and as such he suggested pursuing sponsorship from them. *Christopher Martinez and Sam Glass and Roger Morse will assist Ed Light in this RTAR.*

7. Handbook – Lew Harriman (*Handbook Chair Hugo Hens was absent*)

- a. Handbook Applications Chapter – *Chapter 62 has been published.*
- b. Handbook Fundamentals chapter – The deadline for approving Hugo Hens’ draft (dated 1-18-16) is in June of 2016. Lew Harriman made the following motion, which Sam Glass seconded:
Approve Hugo Hens’ draft moisture management chapter for the ASHRAE Handbook – Fundamentals (dated 1-18-16) subject to the following changes:
 - (1) *Eliminate equation 8 and the discussion surrounding it to focus more attention on data in which we have more confidence (Table 7)*
 - (2) *Add the year of the handbooks referenced at the end of the chapter in Tables 15-18 to avoid chapter version confusion*
 - (3) *Alex McGowan will make any necessary non-substantive adjustments to the language for clarity, and also add I-P units**10 voted in favor, 1 abstention, 1 absence, 0 against.*

8. Program – Norm Nelson

- a. Orlando: Seminar 25 is the only one
- b. St. Louis:
 - i. Avoiding Litigation by Selecting DX Equipment for Dehumidification, Chair is Ray Patenaude
 - ii. Several others are proposed. George DuBose reminded the committee that February 6 is the deadline for submission for St. Louis.

9. Standards – George DuBose provided an update on the TC 1.12 liaisons stating that there were volunteers for various standards, but that more were needed. Lan Chi Nguyen is the liaison for IAQA mold in schools; Sam Glass and Stan Gatland are providing updates on Standard 160; Elliott Horner is providing updates on Standard 62.1; Theresa Weston is providing updates on Standard 90.2; and Ed Light is providing updates on Standard 189.1. Volunteers are needed for Standards 90.1 and 62.2.

10. Special Publication “Techniques for Minimizing Construction Moisture Problems.” Paul Shipp, Ed Light. An outline has been shared with the TC and additional comments are requested. Ed Light and Paul Shipp are working on putting together a team to write the document and are also seeking sponsors for the document. Anyone interested should email Ed Light directly in order to participate in a planning meeting the following Tuesday.

11. Old Business – George DuBose

There was no old business to report

12. New Business – George DuBose

- a. **Re-affirmation of ASHRAE Mold PD** – Lew Harriman stated that the ASHRAE Position Document is due to expire on January 29, 2016. This document was issued in 2013 by two committees, T.C. 1.12 and the Environmental Health Committee. Lew Harriman stated that nothing in the document is wrong or outdated in his view and made a motion that:
T.C. 1.12 recommend to Tech Council that ASHRAE reaffirm the current ASHRAE Position Document on limiting indoor mold and dampness in buildings.
Ray Patenaude seconded the motion. 11 voted in favor, 1 abstention, 0 opposed.
- b. **Printed copy of Moisture Control Guidelines** – Lew Harriman reported that the EPA’s policy is not to print hard copies of its publications. There were over 100,000 downloads of this document last year and ASHRAE will make this a printed ASHRAE publication with proceeds to benefit ASHRAE. Mr. Comstock, ASHRAE’s director of publications, is requesting that T.C. 1.12 provide a forward for this publication. Lew Harriman is to draft this letter for the Chair of T.C. 1.12 to review.
- c. **New Presentation** – Ray Patenaude suggested that Christopher Martinez present on mold growth arising from condensation at the next meeting
- d. **Student Outreach** – Sam Taylor requested the committees’ insight on tools that would help students in the Race to Zero Student Design Competition perform hygrothermal analysis.

13. Adjourn – Ray Patenaude moved to adjourn the meeting.

Next meeting: St. Louis, Missouri, Saturday June 25, 2016 - 13:00 – 15:30

Minutes prepared by C. Cronin