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DRAFT

TC/TG/MTG/TRG MINUTES COVER SHEET

(Minutes of all Meetings are to be distributed to all persons listed below within 60 days following the meeting.)

TC/TG/MTG/TRG No. ASHRAE TC 01.08 DATE: 25 June, 2018
 TC/TG/MTG/TRG TITLE Mechanical Insulation Systems
 DATE OF MEETING 25-June-2018 LOCATION Houston, TX

MEMBERS PRESENT	Vote/ YEAR APPTD	MEMBERS ABSENT	Vote/ YEAR APPTD	EX-OFFICIO MEMBERS AND ADDITIONAL ATTENDANCE
Willis "Bill" Brayman	Yes/2017	Charles Cottrell	Yes/2017	Ralph Koerber
Gordon Hart	Yes/2017	Monroe Shumate	Yes/2017	Pat Noonan
Diana Fisler	Yes/2017			Darrell Peil
André Desjarlais	Yes/2015			Mark Smith
Marcus Bianchi	Yes/2016			Bill Ronca
Art Gielser	Yes/2015			Alan Neely
Manfred Kehrer	Yes/2017			Mikael Salonvaara
Alejandra Nieto	Yes/2015			Allison Bailes
Charles Petty	Yes/2017			Heather Sharif
James Young	Yes/2015			Jaya Dorsey

DISTRIBUTION

<i>All Members of TC/TG/MTG/TRG plus the following:</i>	
TAC Section Head: Dr. Amir Jokar, PE	SH1@ashrae.net
All Committee Liaisons as Shown On TC/TG/MTG/TRG Rosters:	See ASHRAE email alias list for needed addresses:
Mike Vaughn, Manager of Research & Technical Services	MORTS@ashrae.net

Note: These draft minutes have not been approved and not the official, approved record until approved by the TC.

Members & Guests Introductions and Sign In

ASHRAE Code of Ethics Commitment – TC Chairman – Willis “Bill” Brayman

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>.)

Membership:

There were 10 of the 12 total voting members and 10 non-voting members present at this meeting. A *quorum* ($\geq 50\%$) of total voting members) was established.

Minutes:

Minutes from the January 2017, Chicago, IL meeting were briefly discussed and approved as written. Gordon Hart noted that there would be a new number and title for one of the RTARs but agreed the minutes were correct as written. Andre Desjarlais moved to approve and Jim Young seconded. Motion passed 10/0/0.

Liaison Reports:

The TC has no official liaisons, but Marcus Bianchi made the point that The TC for Duct Design 5.2 should interact more with TC 1.08.

In response, Marcus was invited to be liaison to 5.2 and accepted.

Update: Marcus presented the basics on what are the important parameters for duct insulation and the key functions. Discussions were had on pressure drops in flex duct. There was an earlier presentation to have a research project on pressure drops that did not go forward, and an additional proposal to submit an RTAR with 4.1 to characterize flow characteristics in flex ducts.

Follow-up from Gordon Hart: Why will we look at pressure drops? This is old data. Answer: Poor installation lead to increased pressure drops in improperly installed ducts with kinks, sags, and bends. Not properly sized ducts. Gordon: Does the handbook not handle this properly? Answer: It does discuss how ducts that are not properly extended affect air pressure.

Gordon: TC 10.3 just updated refrigeration handbook. We have been asked to cosponsor an RTAR.

Announcements

- Atlanta Meeting – January 12 – 16, 2019
- Seminar and Forum proposals for Atlanta are due by Friday, August 3, 2018
- Kansas City Meeting – June 22 – 26, 2019
- 105 Technical conference papers approved for this meeting.
- Please do not submit comments on ASHRAE letterhead without approval and review by ASHRAE

Subcommittee Reports:

Research Subcommittee (Gordon Hart):

On June 24, 2018, 8 members met here in Houston to discuss efforts to develop, and get accepted, research projects on mechanical insulation. We discussed three of these.

- Status of work statement for WS #1703: “Testing the Performance of Vapor Retarder Systems Used with Mechanical Insulation in Below-ambient Applications”: Charley Petty is the primary author of this Work Statement, with Gordon Hart and Jim Young as contributing authors. An April 28, 2017 Work Statement was submitted to RAC. On July 19, 2017, Bill Brayman, as TC 1.8 Chairman, received a response from Michael Vaughn in which it was returned with comments. This classification means that the Work Statement requires

major revisions before it can be bid. In his letter, Michael gave four concerns and questions which we must address before submitting. These are:

1. Clarification needed whether guidelines for ambient conditions, or if more about design?
2. Specify which of two issues will help designers.
3. At least two experiments needed.
4. Include systematic review of practical application issues with vapor retarder systems. Researchers should include study of at least one of the solutions to these problems.

While we clearly must rewrite this Work Statement to address these four concerns and questions, we do not have that ready now. Therefore, we will do this in the next four weeks and ask Bill Brayman to circulate it to the TC 1.8 Voting Members for a letter ballot. Note that this WS says that we will seek TC 10.3 as a co-sponsor so they should be informed about what is transpiring with regards to this WS.

- Status of RTAR #1761: Heat and Moisture Transport – thermal modeling. M Kehrer, G Hart or by another name “Hygrothermal Modeling of Below Ambient Pipe Insulation Systems in Both Buildings and Refrigeration Systems” - Manfred Kehrer, Gordon Hart. A Draft 3 of this RTAR was sent out by Andre Desjarlais on May 14, 2018 to the entire TC 1.8 membership for comments. Since none were received by the requested date of June 15, this RTAR is now ready for a TC 1.8 vote for approval. Note that this will receive a new RTAR number designation, which will not be 1761. Also note that we will seek TC 10.3 as a co-sponsor so they should be informed about what is transpiring with regards to this RTAR. Motion to approve by Gordon Hart was seconded by Diana Fisler. Motion passed 10/0/0
- New Research Topic: “Determining the Impact of Sealing Hot Insulation System Metal Jacketing Joints on Water Intrusion and Retention in the System” – author >Jim Young. This draft RTAR has no number yet but has a date of June 26, 2017. It was sent to the TC 1.8 members by Andre Desjarlais on May 14, along with the hygrothermal modeling one addressed above. Jim received one comment which he can present to the membership now. If we can address this, then this RTAR is ready for a TC 1.8 vote for approval. Also note that we will seek TC 10.3 as a co-sponsor so they should be informed about what is transpiring with regards to this RTAR. Discussion at the TC: Steve Sanders commented that you should study the different insulation types under the jacket. Jim explained we are fixing the insulation as fiberglass to focus on the joints. RTAR is open to method development. Gordon Hart asked whether hot conditions is appropriate for TC 10.3. TC 10.3 does deal with hot insulation. Jim Young said the issue does not happen under below ambient conditions because you have a vapor retarder. So this RTAR is really focused on above ambient metal jacketing. Motion that this draft RTAR be approved by the TC. Motion passes 9/0/1.

Handbook Subcommittee: (HbSubC - Bill Brayman):

Met yesterday for 2.5 hours to address changes in Chapter 23 of the Handbook of Fundamentals. Sorted through two years of notes from multiple editors. There is a new handbook section work tool online. We will work through the issues involved in having multiple editors. TC should not expect anything before the next meeting. Expect revision to be ready for inclusion in the 2021 Handbook revision. The whole subcommittee will meet by phone to revise at intervals.

Program Subcommittee (Marcus Bianchi):

If anyone has an idea for a session for Atlanta please contact Marcus before the July 7th deadline.

TC 1.08 Webmaster: (Charles Cottrell):

Charles Cottrell is our webmaster and has maintained the following website which can be accessed on:
<https://tc0108.ashraetcs.org/>

Draft minutes were placed on the website.

Old business:

None

New business:

Jim Young informed the TC that Bob Conley passed away at 91.

Andre Desjarlais shared that ASHRAE is sponsoring Buildings XIV conference. Look for call for papers in your mailbox. Dec 9-12 2019, Clearwater Beach, FL.

Adjourn: A motion to adjourn was issued with unanimous voice vote acceptance.