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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. TC 2.8 DATE June 25, 2017

TC/TG/MTG/TRG TITLE Building Environmental Impacts and Sustainability

DATE OF MEETING June 25, 2017 LOCATION Long Beach Convention Center, Long Beach CA

MEMBERS PRESENT	YEAR APPTD	MEMBERS ABSENT	YEAR APPTD	EX-OFFICIO MEMBERS AND ADDITIONAL ATTENDANCE
Mr Ashish Rakheja	2016	Mr David E Ellis, PE	2015	Dr Joy Eileen Altwies, PhD
Mr Kevin R Brown	2016	Mr David L Grumman, P.E.	2016	Mr James C Bradburn, PE
Mr J Kevin Cross	2016	Ms Calina Ferraro	2015	Dr James F Sweeney Jr
Mr Douglas D Fick, PE	2016	Mr John M Swift, Jr	2014	Mr Michael P Deru, PhD
Mr Ng Yong Kong, P.Eng., GBIF	2014			Joanne Choi
Dr Thomas M Lawrence	2016			Brittany Carl
Ms Janice K Means, PE	2016			Svein Morner
Mr Francis A Mills	2014			Mr Elbert G Phillips
Dr Lisa Chen Ng	2016			Ms Kinga Porst Hydras
Mr William L Stanton Stafford, PE	2016			Prof Amanda Smith, PhD
Mr Mitchell Swann, PE	2014			Steven Carlson
Dr Paul A Torcellini	2014			Lawrence Kotewa
				Fred Betz
				Jasim Mahdi
				Dennis Jones
				Aziz Laouadi
				Steven Emmerich
				David Evers
				Wim Maassen

				Ryan Shanley (ASHRAE Staff)
				Stephanie Reiniche (ASHRAE Staff)

DISTRIBUTION: All Members of TC/TG/MTG/TRG plus the following:

TAC Section Head: Elbert Phillips	SHx@ashrae.net Where x is the section number
All Committee Liaisons As Shown On TC/TG/MTG/TRG Rosters (Research, Standards, ALI, etc.)	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.

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TC 2.8 Building Environmental Impacts and Sustainability

Sunday, June 25, 2017, 5:30-7:00 pm

Long Beach, CA

1. Roll call and Introductions (Rakheja)

- 1.1. Meeting called to Order at 5:30 PM
- 1.2. Introductions
- 1.3. Roll Call / Quorum – 8 Voting Members Present at meeting start (no quorum, jumped to agenda item #8 until more voting members arrived), 10 at approval of minutes (including Chair), peak at 12 voting members for GreenGuide vote (including Chair)

2. Accept Agenda/Approve Minutes of Previous Meeting (Altwies)

- 2.1. Review Meeting Agenda
- 2.2. Approval of Las Vegas Meeting Minutes:
 - 2.2.1. Minutes approved (9-0-0-6, CNV)

3. Announcements/Membership (Rakheja)

- 3.1. Tom discussed how ASHRAE is only major society that meets twice a year, need to move toward electronic meetings
- 3.2. Doug Fick is BOD rep to RAC now, in case we need to communicate info to RAC via BOD

4. Standing Committee Liaisons TAC/RAC/StdCom/Program/SpecPub/ALI

- 4.1. Bert Philips stopped by, and is also encouraging us to do any possible electronic meetings

5. Subcommittee Reports

5.1. GreenGuide (Lawrence)

- 5.1.1. We're on a "continuous maintenance" process, so to speak
- 5.1.2. Latest edition also had ICC input
- 5.1.3. All compiled back in May and sent out to voting members
- 5.1.4. Tom moved to have TC vote approval of 5th edition
- 5.1.5. Stanton seconded
- 5.1.6. Hope is to have it formally roll out at Chicago meeting
- 5.1.7. Need ideas for the cover – photos? Maybe change color?
- 5.1.8. There are several new chapters, including residential, new trends, existing buildings; significant rewrites of existing chapters
- 5.1.9. Approved (11-0-0-4 CNV)

5.2. Standards (Lawrence/Fick/Swift)

- 5.2.1. SPC 189.1 Standard for the Design of High-Performance Green Buildings except Low-Rise Residential Buildings (Lawrence)
 - 5.2.1.1. Has been around since about 2009
 - 5.2.1.2. New edition coming out this fall
 - 5.2.1.3. the 2018 version IgCC will be based on 189.1
 - 5.2.1.4. They will package it, but the technical content will be ASHRAE's

5.2.2. SPC 189.3P Design, Construction and Operation of High Performance Green Healthcare Facilities (Fick)

5.2.2.1. Since Vegas, committee resolved all comments

5.2.2.2. It has gone through Board and is now published

5.2.2.3. Discussion is on how to get inside 189.1 to follow I-code cycle

5.2.2.4. If we don't, we're not in on 189.1 agreement with ICC

5.2.3. SPC 191P Standard for the Efficient Use of Water in Building, Site and Mechanical Systems (Betz/Swift)

5.2.3.1. Fred reported that by Tuesday, they should be done

5.2.3.2. Should go out for public review on Tuesday (45 day review time)

5.3. Handbook (Brown)

5.3.1. Our chapters are Chpt. 34 & 35 (Fundamentals handbook)

5.3.2. Just submitted – in Fundamental, just published

5.3.3. Can let it relax for next couple of meetings

5.3.4. It's a 4-year cycle

5.3.5. Heavy edits start 2 years before, gets submitted a full year before the next publication (2019)

5.3.6. Would like to refresh the references

5.4. International (Rakheja / Mills)

5.4.1. Well-attended

5.4.2. Discussed the sustainability standards around the world

5.4.3. Tim Dwyer reported that CIBSE Guide L is about to be revised; big move toward health and well-being in buildings

5.4.4. Discussed Hot-Climate design guide, getting input from middle east and US

5.4.5. Tuesday 9:45 – topics on residential committee to bring to Chicago (forum at this meeting)

5.4.6. Minutes of subcommittee meeting are included at the end of these minutes as Appendix A

5.5. Water-Energy Nexus (Ferraro / Betz)

5.5.1. Mission has been to raise awareness

5.5.2. 27 presentations and 3 conference papers in Vegas

5.5.3. One of comments was that the person couldn't go to all of them

5.5.4. Wide breadth of coverage

5.5.5. Going to do a synopsis for the ASHRAE Journal, plus a section on coming research

5.5.6. No programs planned for next few conferences

5.5.7. Request to do a water-rights presentation – need to do an update

5.5.8. Both Calina and Fred will be rolling off – but there are outstanding research questions, so a research person might be best to take over

5.5.9. Looking for volunteers for the subcommittee chair

5.5.10. There will be a seminar in Chicago, but it needs a track to make sense

5.5.11. Minutes of this subcommittee meeting are included at the end of these minutes as Appendix B

5.6. Research (Altwies)

5.6.1. Summarized the research subcommittee meeting, including status of 1814-WS and old and new research topic ideas

5.6.2. Joy will follow up with authors of ideas that have been on hold for awhile to see if they should remain on the list

5.6.3. Minutes of meeting included in these minutes as Appendix C

5.7. Programs (Brown)

5.7.1. 9 programs approved; a couple not approved

5.7.2. Went through Chicago plans, including zero energy design guide (maybe 2 programs)

5.7.3. We're not sure why some programs get rejected, there's little feedback

5.7.4. ~~Everything is~~ Program submissions are due Feb 6th August 1st for Chicago

5.8. Existing and Future Building Challenges (Macauley/Brown)

5.8.1. Kevin will step up since Dunstan will be involved in Board stuff

5.8.2. Would like volunteers to participate, don't need to be a voting members

5.8.3. Committee touches a lot of other committees, a good way to find out what the rest of ASHRAE is doing

5.8.4. Meets at 12:30 on Sunday, send an email to Kevin

5.8.5. Jim Bradburn volunteered, Frank Mills is also interested

5.9. Website (Ng)

5.9.1. Tc0208.ashraetcs.org

5.9.2. Agenda, minutes, instructions on joining Listserv

5.9.3. What would you like to add? Anything we want to make public can be added

6. Related Activities Reports

6.1. ASHRAE Advanced Energy Design Guides Update (Torcellini)

6.1.1. Zero energy design guide for k-12 schools

6.1.2. 65% review in March, second (86% draft in late May)

6.1.3. Got hundreds of comments

6.1.4. Went to all TC chairs

6.1.5. It's a joint publication (not just ASHRAE)

6.1.6. Plan to wrap up this summer

6.1.7. Hoping for October in digital format, followed by print in time for January

6.1.8. All AEDGs: Over 600k downloads, one of largest ever

6.1.9. As a special publication, we don't have to address every single comment (can bulk respond), not a consensus document

6.1.10. An especially good committee this time, with great insights

6.1.11. Still looking for K-12 case study (zero energy), with photos

6.2. ASHRAE bEQ:

6.2.1. No report

6.3. Input from other TCs?

6.3.1. No report

7. Old Business

7.1. TC 2.8 Proposed Scope Revisions (Rakheja)

7.1.1. No discussion

7.2. MTG.OBB: Occupant Behavior in Buildings (Lawrence)

7.2.1. Collaboration of various TCs

7.2.2. Covers all human responses in buildings

7.2.3. Been fairly well-attended

7.2.4. Meeting is at 8 AM Monday, encourage others to get involved

7.2.5. Trying to determine what is needed (standard, publication, other?)

7.3. MTG.IAST: Impact of ASHRAE Standards and Technology on Energy Savings/Performance

7.3.1. No report

7.4. MTG Hot & Humid Climate Guide (Mills)

7.4.1. In progress

7.4.2. Forum in Vegas

7.4.3. Attended a conference in Doha, with requests on how to do exterior cooling

7.4.4. Lots of visitors coming – lack trees, shading, etc.

7.4.5. Might add passive/natural methods of exterior cooling to guide

7.4.6. If anyone had info they want to add to guide, send to Frank

7.5. MTG Cold Climate Guide (Mills)

7.5.1. Going through revision now, should be on bookshelves by January

7.5.2. There's a conference coming up, will present on new guide

7.5.3. Tends to direct people to the right info in handbooks and standards, pubs

7.5.4. Looking for case studies

8. New Business

8.1. TC Involvement in ASHRAE Standards Development

8.1.1. Stephanie from ASHRAE staff - Need more TC involvement

8.1.2. Created a one-page document to help TCs

8.1.3. We have a code interaction subcommittee

8.1.4. Steve Ferguson is our codes person – he can provide links for feedback

8.1.5. Need help with international standards

8.1.6. Need more expertise to review ISO stds to create a US position

8.1.7. One-page doc will be included in minutes (Appendix D)

8.2. Net Zero Energy Standard (Emmerich)

8.2.1. Incoming chair of stds committee

8.2.2. Upper level of ASHRAE felt we needed a zero energy building standard (otherwise another society might claim it from an ANSI standpoint)

8.2.3. We held a forum in Vegas

8.2.4. Mixed results from forum

8.2.5. Want to know whether this TC is interested in pursuing this standard

8.2.6. Could it be included in 189?

8.2.7. The standard could define what zero energy means

8.2.8. Consensus process may be difficult/problematic – Paul noted DOE was trying to provide guidance, not convinced DOE helped unify anything

8.2.9. There is a need for a common definition, with a known process for reaching it

8.2.10. Will a certification be needed, and who will certify? How to give it teeth

8.2.11. If this TC is interested in pursuing, would need a title, purpose, scope, a chair, and at least 5 interested members

8.2.12. TC 7.6 may also be interested

8.2.13. After a SPC is formed, they would own it, but there is a cognizant TC

8.2.14. We will discuss this – some TC members are not present and may want input

8.2.15. Won't be able to make a decision at this meeting, we will consider it

8.2.16. Stanton, Ashish and Steve will follow up

8.3. Mitchell brought up that he has now seen a legal claim involving losses from future energy costs - from a building that didn't perform

9. Adjourn

9.1. Motion by Janice.

9.2. Seconded by Paul.

9.3. Motion approved unanimously (9-0-0-7, CV)

9.4. Meeting adjourned at 7 PM.

NEXT MEETING: Sunday, January 28, 2018, Chicago, IL

DRAFT

TC 2.8 Web Site
<http://tc28.ashraetcs.org>

To subscribe or unsubscribe to the list, you can go to the TC 2.8 list web site:
<http://lists.onebuilding.org/listinfo.cgi/tc28-l-onebuilding.org>

This list is only for communications related to ASHRAE TC 2.8 Building Environmental Impacts and Sustainability. Do not distribute messages of any commercial nature.

To send a message to all subscribers to the list, address your message to:
tc28-l@lists.onebuilding.org

Note: ASHRAE does not operate this list. Please do not ask them for help. If you have any questions, please contact: Jason Glazer JGlazer@gard.com

Thanks to Jason and GARD Analytics for hosting this list!

For comments, suggestions, volunteering to help, etc. with anything dealing with TC 2.8, please contact me at:

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Upcoming Conferences:

2018 Winter Conference:	Chicago, IL
2018 Annual Conference:	Houston, TX
2019 Winter Conference:	Atlanta, GA

Information on these ASHRAE Conferences can be found on ASHRAE's website under Events –
<http://www.ashrae.org>