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| **TC 7.6 Building Energy Performance**[**www.tc76.org**](http://www.tc76.org)**Tuesday, June 26, 2012, 1:00-3:30 pm,** **San Antonio, Texas**

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| --- | --- | --- |
| MEMBERS PRESENT | EX-OFFICIO MEMBERS AND ADDITIONAL ATTENDANCE | EX-OFFICIO MEMBERS AND ADDITIONAL ATTENDANCE |
| **Michael Deru, Chair** | **Gary Andis** | **Hyojin Kim** |
| **Janice Peterson, Secretary**  | **Peter Armstrong** | **Mark MacCracken** |
| **Daniel Choiniere** | **Chris Baker** | **Jeff McClain** |
| **Keith Emerson, Standards**  | **Chris Balbach** | **Amy Musser** |
| **Jim Kelsey, Webmaster** | **Mahabir Bhandari** | **Daniel Nall** |
| **Dennis Landsberg, Energy Perf.** | **David Eldridge** | **Cindy Omstead** |
|  | **Zulfi Cumali** | **Aaron Smith** |
| MEMBERS ABSENT | **Hywel Davies** | **Adrienne Thomle** |
| **Mark Case** | **Greg Dobbs** | **Samir Traboulsi** |
| **William Bordass** | **Daker Gowans** |  |
| **Hashem Akbari** | **Jeff Haberl** |  |
| **Dick Pearson, Energy Mgmt** | **Reid Hart, Research Chair** |  |
| **Jay Enck, Vice Chair** | **Antonio Huizar** |  |
|  | **Bruce Hunn** |  |
|  | **Thomas J Kelly** |  |

**DISTRIBUTION**

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| ***All Members of TC plus the following:*** |
| TAC Section Head: | Dru Crawley |
| TAC Chair: |  |
| Manager Of Standards Manager Of Research & Technical Services | Stephanie ReinicheMike Vaughn |

 |

1. **Call to Order** by chair Michael Deru followed by roll call and introductions.

2. **Motion:** to accept the agenda and approve the minutes of Chicago meeting.

 By Jim Kelsey, second Dennis Landsberg, approved 5-0-0 CV

3**. Announcements** Deru

ASHRAE will only be known as ASHRAE now, rather than what each letter stood for.

ASHRAE is now asking speakers to pay a $95 registration fee.

4**. Standing Committee Liaisons**

Phillip Haves, new section 7 RAC liaison, checked in to introduce himself.

**5. Subcommittee Reports**

5.1 Membership - Deru

The new roster goes into effect July 1, 2012. Janice Peterson agreed to do membership during her term as vice chair.

5.2 Research – Eldridge for Hart

Work statement 1608, concerning the development of a MOT for unitary equipment (”Development of Load-Based Method of Test for Light Commercial Unitary HVAC Equipment”) was discussed. The WS was previously updated to reflect the preliminary nature of the work leading to future phases.

**Motion:** to approve WS 1608, co-sponsored with TC 8.11

By Daniel Choiniere, second Jim Kelsey, approved 5-1-0 CV

Dennis Landsberg – reason for negative vote is that ASHRAE will be paying for data that will be held in confidence

A new RTAR was introduced by Hywel Davies and Amy Musser on behalf of the bEQ Committee. It references Source Energy EUIs for ASHRAE bEQ Rating (full title: Development of Additional Median EUI Data and Energy Modeling Rules for Use in Building Energy Labeling). There is a need for median EUIs for the In-Operation rating, for additional buildings and climate zones. Results are needed in a year. Proposal is that if TC 7.6 approves RTAR, the bEQ Committee will prepare a WS draft for letter ballot by TC 7.6 before Aug. 15. The estimated cost is $200K. The objective of Task 1 is to gather existing data on which to base the median EUIs. A suggestion was made that Std 100 has developed some of this data. Task 2 will build upon the energy modeling rules of the As-Designed rating procedure for office buildings developed by subcommittee of bEQ Committee.

**Motion:** That TC 7.6 approves the draft RTAR in principle and that a working group of TC 7.6 and bEQ members will review a Work Statement on this topic to be developed by the bEQ Committee.

Approved 5-0-0, CV. TC 7.6 volunteers: Hunn, Balbach, Landsberg.

5.3 Handbook - Stafford

Committee members met to prepare revisions of Chapters 36 (Energy Use and Management) and 41 (Bldg Energy Monitoring) of Applications volume. Chapter 36 is in pretty good shape and 41 will be re-focused. The suggestion is that the Performance Measurement Protocols and Best Practices guide be the basis for the rewritten chapter.

5.4 Standards - Emerson

See the report as distributed. Guideline 14 will be out for public review in fall 2012. Std 90.1 has several addenda in process. Standard 90.2’s first public review is expected in Sept. 2012. Standard 100 is responding to138 comments. Standard 105 is responding to 33 comments. There is a proposed standard on Commercial Building Energy Audits.

**Motion:** That the TPS for the proposed guideline for Energy Use in Historic Buildings be approved. Moved by Keith Emerson, 2nd Jim Kelsey, Approved 5-0-0 CV. Cindy Omstead volunteered to serve on committee.

5.5 Monitoring & Energy Performance – Landsberg

The DASH and Best Practices Guide were discussed. State and national programs status, and the DOE Superior Energy Performance program, were outlined.

5.6 Energy Management. Deru for Pearson

Pearson was not at this meeting, but he has requested that ASHRAE expand the use of ASHRAE Energy Management material.

5.7 Web Site. – Kelsey

No updates.

5.8 Commercial Building Audits – Kelsey

There is interest from industry for shared analytic tools. A new 7.6 sponsored course on the green book was suggested, but there is no language yet to propose and it is probably too ambitious at this point. The proposed audit standard has lots of interest; the Iowa Energy Center wants one and is willing to participate on an ASHRAE committee. PPIS has approved the TPS, and it is going to Standards on Weds.

**Motion:** to support the development of a PDC course based on the Commercial Audit Guide. Approved 6-0-0 CV. Michael Deru to tell Mike Vaughn of the vote.

5.8 Program - Deru for Carlson

There are several requests to support program ideas:

* Forum on building database, not to include as much data as DASH, with DOE, PNNL and LBL leading the effort. They want to be bigger than CBECS for actuarial analysis.
* Seminar on CIBSE energy benchmarking activities
* CERL is proposing technical papers for Denver on energy master plans.
* Michael Deru is doing a session on results of NREL work in grocery new construction, retrofits and CHP.

5.9 DASH (database for the analysis of sustainable and high performance buildings) – Hunn

Working with Green Building Alliance on a contract with NIST for a commissioning module. 7.6 and 7.9 are working together in a working group. They need cost benefit info on Cx, also need input to test the web interface and review during month of July. Probably a 2-3 hour effort to enter information.

5.10 AEDG Update - Thomle

Guides for owners and facility managers were priced high but are now bundled together at price of one. The proposed third guide for O&M is deemed not to be needed. ASHRAE is looking for feedback or comments from users of all guides. Three more 50% guides will be done on different building types, then they will move on to maximum savings guides.

**6. Old Business**

6.1 Presidential Site Source Ad Hoc Committee - Deru

The Ad Hoc Site-Source Committee submitted its report to the BOD, where it was accepted but action was postponed until Dallas.

The Ad Hoc Committee developing EUI definitions is still trying to get consensus, collecting all definitions for numerator; the denominator has a good definition of gross sqft.

**7. New business**

• New membership chair Janice Peterson

• ASHRAE Energy Guideline for Historic Buildings was approved to form a committee

• PMP document and follow-on Best Practices Guide – a series of case studies is needed for each and will be the subject of an RTAR being prepared by Hunn and Haberl.

**8. Adjourn**

NEXT MEETING: Tuesday, January 29, 2013 Dallas

TC 7.6 Sponsored and Co-Sponsored Programs

Seminar 1

Breaking Boundaries in Building Controls Integration

Sunday, June 24, 2012, 8:00 AM-9:30 AM

Track: Integrated Building Controls

Room: 001A

SEMINAR 53

Green Building Energy Performance Pathways and Evaluation Approaches

Tuesday, June 26, 11:00 AM-12:30 PM

Track: Integrated Energy Systems

Room: 001A

TC 7.6 Meetings

Building Energy Performance (30), Tuesday 1:00-3:30p (CC) 102B

Research (12), Sunday 1:00-2:00p (H) Mission A

Commercial Building Energy Audit, Sunday 2:00-3:00p (H) Mission A

Handbook (12), Sunday 3:00-4:00p (H) Mission A

Monitoring & Energy Performance, Monday 2:15-4:15p (CC) 002B

Energy Management (12), Monday 4:15-5:15p (CC) 002B

Standards (12), Monday 5:15-6:15p (CC) 002B

Executive (12), Monday 6:15-6:45p (CC) 002B

SSPC 100 Energy Efficiency in Existing Buildings, Tuesday 8:00-12:00p (CC) 006A

SPC 105 Standard Methods of Measuring and Expressing Building Energy Performance, Sunday 9:00a-1:00p (CC) 006A

GPC 14 Measuring Energy Demand and Water, Sunday 6:30-9:00p (H) Presidio A (3)

**TC 7.6 email Listserv**

We have switched to a new listserv at tc76-l@lists.onebuilding.org. Subscribe by sending a blank email to tc76-l-subscribe@onebuilding.org and unsubscribe by sending a blank email to
tc76-l-unsubscribe@onebuilding.org.

**ASHRAE Specialty Conferences**

**Energy Modeling Conference,** October 1-3, 2012, Atlanta, GA

[www.ashrae.org/EMC2012](http://www.ashrae.org/EMC2012)

**ASHRAE/NIST Refrigerants Conference,** October 29-30, 2012

National Institute of Standards and Technology, Gaithersburg, MD

**Cold Climate Design,** November 12-14, 2012, Calgary, Alberta, Canada

[www.ashrae.org/ColdClimate](http://www.ashrae.org/ColdClimate)