**Minutes**

**TC 7.6 Monitoring and Energy Performance Subcommittee**

Dallas, TX — Monday, January 28, 2013

Dennis Landsberg, Chair

1. The meeting was attended by **9** members of the TC

Dennis Landsberg Jim Kelsey Michael Deru Steven Carlson Chris Balbach Dakers Gowens Janice Petersen Bruce Hunn

H. Jay Enck

**9** corresponding members of the TC

Bill Koran Ralph Muehleisen Adam Hinge David Landman

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| David Eldridge n | Jim Willson Scott Hackel Rich Tesoriero | | |
| Dakers Gowens  and **20** visitors. |
| **10** guests |  |  |  |
| Mark Gallagher | Michel Tardif | David Bosworth | Marja Troka |
| Kris Xu | Kevin Christman | Mike Brandemuehl | Sam Jasinki |
| Guanjing Lin | Zulfikar Cumali |  |  |

2. STANDARDS, Guidelines

a. Standard 100 update. Committee reviewing comments. b. Standard 105 update. Committee reviewing comments –second round.

c. Guideline 14 update. Reviewing comments.

d. Standard 189.1 errata published May 2012.

e. Standard 211 Commercial Building Energy Audits - new standard - first meeting held this morning

f. TC 9.9 development of an energy standard for data centers- Std. 90.4.

3. PUBLICATIONS

a. The PMP Best Practices Guide should be available for sale in the bookstore at this meeting.

4. BuildingEQ 8. bEQ Update

a. The RTAR for bEQ that was provisionally approved in San Antonio:

the bEQ Committee is taking a revised, simpler approach which obviates need for an RTAR. A smaller project is underway with bEQ Committee funding.

1. 5. DASH – Bruce Hunn
   1. Report on completion of NIST project for DASH web interface development.
   2. ASHRAE’s role in review, testing, applications - where to go from here? TC 7.6 will be the driver.
   3. Seminar on Bldg Performance Metrics for Denver (including DASH) - presumably this will be going through the TC 7.6 Program Subcommittee.
   4. PMP and BP Guide case studies: Hunn and Haberl have a draft RTAR for review.
   5. Fire Service database - :Bruce Hunn has had discussions with a consultant, Jeff Snow, regarding this possibility.
2. 2009 RECS has energy data and floor area data finally, floor area makes more sense now, but changed from 2005
3. EPA is planning to update the Home Energy Yardstick based on 2009 RECS
4. EPMI has released a multifamily building energy benchmarking tool for testing, based on 2005 RECS so far (http://epminst.us/mf\_eps/MF\_EPS.htm), State of Wisconsin has tested and likes it.
5. 2012 CBECS is supposed to be collecting data this year
6. Discussion - state/city building energy rating website? http://www.buildingrating.org/
   1. Australia commercial disclosure program (NABERS) is an example of what is covered on above website
7. Discussion - DOE SEED platform is in testing - complicated - actuarial methods being pursued for analysis using SEED data were discussed at ACEEE Summer Study. (Paul Mathew at LBNL and Kris Subbarro PNNL) are key analysts) http://www1.eere.energy.gov/buildings/pdfs/seed\_factsheet.pdf
8. Data Access and Transparency Alliance? http://www.energydataalliance.org/
9. Update on state- and city-level energy performance mandates.
10. Superior Energy Performance – beta testing continues.
11. Developments from ISO 242 – Energy Management
    1. ISO 50001 – Energy Management – Superior Energy Performance is an outgrowth of ISO 50001
    2. ISO 50003- Conformity assessment — Requirements for bodies providing certification audits of energy management systems audits and auditor competency.
    3. ISO 50004 – Energy Management Systems Requirements
    4. ISO 50015 - Measurement and Verification of Organizational Energy Performance — General Principles and Guidelines
12. Activities in Europe- Adam Hinge - Title "Energy Performance of Buildings" and then have the following subtitles:
    1. Assessment of overall energy performance (ISO 16346)
    2. Common terms, definitions and symbols for the overall energy performance rating and certification (ISO 16344, first prepared as ISO Technical Report)
    3. Methods for expressing energy performance and for energy certification of buildings (ISO 16343)
    4. Presentation of measured energy use of buildings (ISO 12655)

No activity in US.

1. There are also some relevant projects going on through the Building Performance Institute Europe (www.bpie.eu ) and Global Buildings Performance Network (www.globalbuildings.org )
2. ANSI Energy Efficiency Standards Coordination – ANSIESSCC – Lilas Pratt ASHRE liason. Organize and raise awareness of standards.
3. Specifications for Energy Information Systems – LBNL and PNNL – workshop end of February.