Minutes

TC 7.6 Research Subcommittee

Sunday, January 19, 1:00 pm -2:00 pm (EST)
Hilton Hotel, Hudson Room, Fourth Floor
TC 7.6 – Building Energy Performance

1. **Introductions and Sign-In -** Collected attendance by 16 people via the sign-in sheet.

2. **Review of ASHRAE Research Procedures**

   a. ASHRAE Research Administration Council – RAC

   b. Research Topic Acceptance Request (RTAR) – developing the idea and justifying the investment, may be co-sponsored by additional TC's to improve acceptance

   c. Workstatement (WS) – detailed scope, _usually_ based on an RTAR – use of the RTAR is to protect the authors from performing the work with a risk of the proposal not being a fit for RAC.

   d. Technical Research Project (TRP) – for bidding by contractors

   e. Unsolicited Research Proposal (URP) – submitted as a workstatement, not necessarily through a technical committee but is not likely to be approved without support of a TC. Not to be used as a way to circumvent the TC's or "speed up" the normal process.

3. **Research Chair Breakfast in Denver**

   a. 58 active RP's with a value of $11M
   b. July 2012 to July 2013: 14 project completed, 11 new projects started, 14 TRP's released for bid, no projects on-hold due to lack of funding
   c. Very few WS in reserve
   d. URP's – have to be sponsored by a TC – suggestion is to convert to a workstatement

4. **Old Business**

   a. Networking with research subcommittees for standards supported by TC 7.6 – this is a work in progress

5. **Current Research Projects of TC 7.6 and related TC's**

   a. 1702-RTAR _**Case Studies to Test Performance Measurement Protocols**_ sponsored by TC 7.6…ready to submit WS to full TC for vote.

      i. MOTION TO Submit 1702-RTAR for submission.

b. In-progress (recently completed?) as a co-sponsorship: 1633-RP – ***Data and Interfaces for Advanced Building Maintenance and Operation***, KGS Buildings is the contractor, scheduled for completion last summer. Jim Kelsey from TC 7.6 is on PMSC.

c. 1608-RP, ***Development of a Load-Based Method of Test for Light Commercial Unitary HVAC*** Sponsored by: TC 8.11, Unitary and Room Air Conditioners and Heat Pumps, Co-sponsored by: TC 7.6, Building Energy Performance. Michael Deru from TC 7.6 is on PMSC.

d. RP 1651 – database of measures, any update from Gard Analytics?

e. Any bEQ updates pertaining to research?

f. Request for co-sponsorship WS-1697 with TC 7.5. WS has the title of "Reduce Simultaneous Heating and Cooling in Commercial Buildings.

    i. Looking for one member of TC to assist with the Workstatement.
    ii. Eventually one member of TC to serve on PMSC.

6. **Research Proposals Presented to TC**

a. ***New proposal – 1697 RTAR for co-sponsorship*** - One of the final deliverables of this project is to develop a tool to aid designers in better design of air distribution systems that improve zoning and inter zone air mixing, and avoid the simultaneous heating and cooling in new buildings. The project will use the following phases:

    i. Conduct quantitative analysis to understand the magnitude of the problems in different weather locations and estimate potential savings.

    ii. Develop a control strategy and detection tool to reduce simultaneous heating and cooling in existing commercial buildings. The detection tool could operate both at the whole building level and at the HVAC component level.

    iii. Develop an air distribution system that can help designers improve zoning and inter zone air mixing, and avoid simultaneous heating and cooling in new buildings.

7. **New Research Ideas**

a. How Cx affects a building's life-cycle cost. This will be presented to TC 7.9 first, and may depend upon DASH as a repository.

b. Benchmarking data for higher education, evaluate potential normalization factors – discussed Monday afternoon after the research subcommittee meeting had taken place. TC 9.7 for Education Facilities is interested to support this research but will rely on expertise from TC 7.6 members. Next step is a literature search and potential RTAR.

8. **Adjourn**

NEXT IN-PERSON MEETING: Sunday, June, 2014, Seattle