

**Building EQ Committee**  
**December 10, 2019**  
**Web Meeting**

**Participants:** Doug Cochrane, John Constantinide, Rob Risley, Chris Balbach, David Underwood, Charles Eley, Esteban Baccini, Daniel Redmond, Hugh Crowther, Dennis Knight, Lilas Pratt

**Guests:** Stephen Roth, Bruce Hunn, Caroline Sevier

**Principal Motions<sup>1</sup>**

**Motion #1:** John Constantinide moved, and Chris Balbach seconded that the minutes from the June 23, 2019 Annual meeting in Kansas City be approved.

**Vote:** Motion passed by unanimous voice vote (5-0-0, CV)

**Motion #2:** David Underwood moved, and Charles Eley seconded that the expenditures to add the Spanish translation (\$8k), the Database query block (\$5k), and the Standard 211 phase 2 additions to the Building EQ Portal be approved.

**Vote:** Motion assed by unanimous voice vote (7-0-0, CNV)

**Motion #3:** Rob Risley moved, and Esteban Baccini seconded that a quantity discount on narrative audit reports be approved for Western Michigan University to buy 8 reports within one year and get 2 additional reports for free.

**Vote:** 6-0-1, CNV (David Underwood abstained)

**New and Open Action Items**

**December 10, 2019 Web Meeting**

- **AI 1:** Lilas Pratt to request more information from ASHRAE IT on the server being used by ASHRAE for ashrae.data.org.
- **AI 2:** Doug Cochrane to ask Jeff Littleton to announce the Building EQ demo as part of his remarks during the Plenary in Orlando.
- **AI 3:** Committee members to provide feedback to Lilas Pratt on what should be covered during the Portal demonstration in Orlando.

**November 22, 2019 Methodology Subcommittee Web Meeting**

- **AI 1:** Subcommittee members to read the Research Journal article on RP-1702 to see if the recommendations from that report suggest needed changes in the Building EQ.
- ✓ **AI 2:** Lilas Pratt to provide recommendations to the subcommittee based on the RP-1702 report

**September 19, 2019 Development Subcommittee Web Meeting**

- **AI 1:** Rob Risley to generate some blurbs about Building EQ that could possibly be used on ASHRAE's social media outlets

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<sup>1</sup> All votes are recorded as yes-no-abstain.

- **AI 4: Dan Redmond** to reach out to Eric Binder or Heric Holmes regarding next steps for Building EQ with the City of Edmonton Alberta

#### **June 22, 2019 Business Development Subcommittee Meeting**

- **AI 8: Hugh Crowther** to do the first draft of a university focused presentation by the August Business Development Subcommittee call.
- **AI 13: Committee** to reach out to energy modeling players (LEED/final design players and schematic design players) including TC 4.7 to determine how Building EQ As Designed might work with existing modeling tools.

#### **June 22, 2019 Methodology Subcommittee Meeting**

- **AI 1: Charles Eley** to do a comparison of the effect of a multiplier change on Building EQ scores.

#### **January 13, 2019 Atlanta Winter Meeting**

- **AI 1: Lilas Pratt** to contact Montana University regarding ASHRAE use of their one hour course. **On-going**

#### **January 12, 2019 Business Development Subcommittee Meeting**

- **AI 3: Lilas Pratt** to develop French Portal examples (screens/reports/etc.) by March 23 for use on sales calls to Hydro Quebec. **On-going**

#### **June 25, 2017 Long Beach Annual Meeting**

- **AI 6: Methodology** to look at how to address Data Centers and using PUEs.

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### **Meeting Minutes**

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1. Call to Order – Meeting convened at 11:03am, Quorum was established
  - a. Introductions
2. Review of Agenda
  - No changes requested
3. Report from the Chair (Doug Cochrane)
  - a. Portal Translations Update
    - Spanish translation information has now been received and will be sent to Stephen Roth for entry into the Portal prior to Orlando.
4. Report from the Coordinating Officer (Dennis Knight)
  - Appreciation for the work being done and keeping the work plant moving.
5. Old Business (Cochrane)
  - a. Approval of minutes
    - June 23, 2019 web meeting  
(File: [bEQCommittee\\_23Jun2019\\_AM\\_MtgMinutesDraft RI.pdf](#))

**Motion #1:** John Constantinide moved, and Chris Balbach seconded that the minutes from the June 23, 2019 Annual meeting in Kansas City be approved.

**Vote:** Motion passed by unanimous voice vote (5-0-0, CV)

- b. Review of [Action Items](#)
  - 6/22/19 AI-13: Chris Balbach, chair of TC 4.7, will make this a topic of discussion in Orlando for the appropriate subcommittee.
  - Updates on other action items are covered in the notes below.
- c. 1771-RP Update (Energy Modeling of Typical commercial Buildings in Support of ASHRAE Building Energy Quotient Energy Rating Program)
  - Task 4 has now been completed.
  - The PI will be attending the methodology subcommittee in Orlando and providing an update on Tasks 5 and 6.
  - There were some concerns about some information lost in Task 4, but that information should be recoverable in Tasks 5 and 6.
- d. 1836-RP Update (Developing a Standardized Categorization System for Energy Efficiency Measures)
  - The project kicked off this year.
  - The PMS has not yet had a meeting, but they will be meeting in Orlando.
  - The Task 1 deliverable will be reviewed at that meeting.
  - The project has 5 total tasks and will run through the end of 2020.
- e. Life-to-date (LTD) Web Portal Statistics (as of 12/1/2019)
  - Users: 998 (*893 at beginning of SY*)
  - Projects: 627 (*510 at beginning of SY*)
  - Submitted/Approved projects: 42 (*28 at beginning of SY*)
  - Reports purchased: 2 (\$450) (*1 at beginning of SY*)
  - Paid credentials: 41 (26 at \$15 and 15 at \$25 = \$765) (*36 at beginning of SY*)

## 6. New Business

- a. Development Options for SY 2019-20 ([Attachment A](#))  
File: ([BEQ Portal New Feature List 25Oct2019.docx](#))
  - Items discussed by the committee for development in this fiscal year include: Spanish translation, Sample project, phase 2 of standard 211 alignment, database query block, and data centers, as well as a more secure Portal server.
  - Having data centers included may be a selling point especially for large office buildings where people want to break out that energy usage as part of a multi-use property. However, it might make sense to hold off on this item until later in the Society year.
  - Because the committee is trying to make Building EQ easier to use as a compliance pathway for energy audits, it would be good to prioritize items that move Building EQ to greater alignment with Standard 211.
  - BuildingSync needs additional exploration before the committee can identify needed changes in relation to that.
- b. Portal Server to meet Federal security guidelines

- The DOD is interested in using Building EQ, but information on the cloud for any system they use needs to meet certain cybersecurity framework requirements.
  - The current Portal server (GoDaddy) does not meet these requirements.
  - The recommendation from the Portal developer is to move the Portal information to MS Azure which is cloud based, secure, and fast.
  - MS Azure does meet the DOD requirements as long as the correct settings are used. The DOD has recently awarded them a contract.
  - The committee agrees that this migration is a good idea.
  - The monthly hosting fees would go up from roughly \$500 per year to something between \$1200 and \$3000 per year. The current budget for both this FY and next FY can accommodate this increase.
  - Spending this kind of money without adding anything for the customer is of some concern; however, the additional security would seem to be an additional benefit for the customer.
- c. Motions to initiate projects
- The main items that the committee would seem to want to move forward with at this time are the Spanish translation (\$8k), the Database query block (\$5k), and the Standard 211 phase 2 additions (\$4.8k)
  - Other opportunities will be discussed more in Orlando.

**Motion #2:** David Underwood moved, and Charles Eley seconded that the expenditures to add the Spanish translation (\$8k), the Database query block (\$5k), and the Standard 211 phase 2 additions to the Building EQ Portal be approved.

**Vote:** Motion assed by unanimous voice vote (7-0-0, CNV)

7. Methodology Subcommittee Report (Chris Balbach)

- a. 1702-RP Assessing reliability of PMP protocols – See Action Items
- This item will be discussed on the 12/12/2019 Methodology Subcommittee call.
- b. BuildingSync Update
- An importer is being developed for Building EQ Portal now. The hope is to have that importer demonstrated at the meeting in Orlando.
  - The next step would be to develop a Building EQ use case for public display on the DOE web site. This will be discussed by the subcommittee in Orlando.
- c. Updates to electricity site-source multiplier – See Action Items
- Charles Eley talked with the developer for the Architecture 2030 ZeroTool to review a procedure for adjusting the site-source multipliers in that tool.
  - The procedure is outlined in the write-up on the PRM methodology and consists of backing out the old site-source ratio and putting in the new one.
  - In order for that to work, an estimate of the gas/electric split ratio is needed. The developer was going to check if that was available in the ZeroTool information. If not, the ratios that we already in the system for the Standard 100 methodology could be used.

8. Business Development Subcommittee Report (Rob Risley)

- a. Practitioners (ASHRAE members, energy auditors)

- Rob Risley has reached out to Jay Scott about requiring a Building EQ Performance Score for buildings highlighted in ASHRAE Journal articles. Jay Scott is looking at the potential consequences of this requirement prior to implementing the idea.
  - Hugh Crowther has completed the podcast style recordings of the DL PowerPoint presentation. These are being reviewed now and will be posted to the Building EQ website (and on Basecamp) once that is completed.
  - Demonstration in Orlando ([Attachment B](#))
    - Stephen Roth will again provide a demonstration of the Portal at the upcoming Winter meeting.
    - The demonstration is on Sunday, February 2, 4pm-5pm, Orlando
- b. Education Sector (Public Schools, Universities)
- APPA-ASHRAE task group
    - The task group is working on a joint ASHRAE-APPA Building EQ flyer oriented to colleges and universities.
    - Once the content is agreed upon by the task group, that will be passed back to Lilas Pratt for review and to have marketing make it flashy.
    - Dan Redmond is also letting APPA know about upcoming events.
  - Seminar 42: The Rise of Building EQ: Educational Facility Case Studies in Central Florida
    - Tuesday, February 4, 8am-9:30am
    - The seminar will consist of three presentations. Good feedback was received from Bruce Hunn on the presentations.
- c. Grassroots & Municipalities
- GAC PowerPoint Presentation
    - A short focused PowerPoint presentation has been developed for use by the Government Affairs Committee (GAC) and the regional GAC representatives.
  - Central Florida Activity
    - The goal is to push for adoption of Standard 211 with Building EQ as a compliance path for that standard's reporting requirements.
    - John Constantine is following up with all of the municipalities in central Florida through the Space Coast Chapter GAC.
    - They are working on additional workshops and follow-up information.
- d. Large Customers (utilities)
- There is activity in various areas including State of Tennessee, Hydro Quebec, etc.
  - The previous contact at Hydro Quebec has retired, and Ron Gagnon is working to determine who the correct contact should be moving forward
- e. Quantity discounts on Narrative Audit Reports
- The suggested method to provide discount is something along the line of buy 8 reports, get 2 free.
  - A discount has been suggested by one user of the Portal who is working on and submitting many projects.

**Motion #3:** Rob Risley moved, and Esteban Baccini seconded that a quantity discount on narrative audit reports be approved for Western Michigan University to buy 8 reports within one year and get 2 additional reports for free.

**Discussion:**

- Is there a need for a timeline on this? Having a timeline might encourage folks to do more buildings in the given time frame.
- Whether or not this is expressed as “buy 4, get 1 free” or “buy 8 and get 2 free” would depend on how big a bulk purchase you want them to make before allowing for free reports.
- The larger quantity purchase would seem to encourage users to do the work now rather than later.
- This needs to be stated as “buy 8, get 2 additional free” so it is clear that the 2 free ones are not part of the 8 purchased.
- It would make more sense to approve individual requests for discounts rather than to make a single discount available for everyone.
- Discounts should only be approved on a case by case basis.
- Discounts should be used as a negotiation tool rather than a promotion tool.
- Flyers can included the statement that bulk pricing of reports may be available.

**Vote:** 6-0-1, CNV (David Underwood abstained)

#### 9. Upcoming Meetings

- Methodology SubC Web meeting– Thursday, January 9, 11am-12pm
- Methodology SubC– Saturday, February 1, 11am-12:45pm, Hilton Orlando
- BEQ Development SubC– Saturday, February 1, 1:15pm-3pm, Hilton Orlando
- Building EQ Committee – Sunday, February 2, 8:30am-11:30am, Hilton Orlando
- Building EQ Portal Demonstration – Sunday, February 2, 4pm-5pm, Orlando
- Building EQ Seminar - Tuesday, February 4, 8am-9:30am ([Attachment B](#))

10. Adjourn – **Meeting adjourned at 12:47pm EST**



## Attachment A – Development Options Worksheet

BUILDING EQ BUDGET WORKSHEET - DEVELOPMENT PROJECTS					<i>Updated 12/10/2019</i>
Society Year	19-20	20-21	21-22	Quoted Cost	Comments
<b>Budgeted Amount</b>	<b>\$30,000</b>	<b>\$30,600</b>	<b>\$32,000</b>		
<b>Development Projects</b>					
Spanish Translation	\$8,000			\$8,000	
Sample Project (user requested)	\$1,000			\$1,000	Use ASHRAE HQ and assign to new accounts
Building EQ Portal server	\$7,500				Plus monthly hosting costs - \$100-\$250
Std 211 Align -phase 2: Add 12 new columns	\$4,800			\$4,800	New columns on EEM accordions
Std 211 Align -phase 3: Pop-up with inputs for MF			\$2,500	\$2,500	Pop up to get fields specific to Multifamily
Std 211 Align -phase 4&5: Add 3 new accordions		\$16,000		\$16,000	Three new accordions
Database Query Block	\$5,500			\$5,500	Allow Lilas to query with SQL statements
Add Data Centers to Building Types covered	\$2,000			\$2,000	Use Arch 2030 API to mimic E* process
PRM Methodology for 90.1 (being defined/tested)		\$13,500		\$13,500	Modify As Designed rating median EUI calcs
CDD/HDD (user requested)			\$8,000	\$8,000	User requested. Would require an annual fee.
Reminder Emails			\$1,900	\$1,900	Auto generated emails for old projects
Currency Designation				\$500	Allow user to designate currency
Update single national site-source multiplier				\$0	No cost to update single multiplier
BuildingSync Importer				??	Cost unknown at this time
<b>Totals</b>	<b>\$28,800</b>	<b>\$29,500</b>	<b>\$12,400</b>		

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# Building EQ

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## Building EQ Portal Demonstration

See a live demonstration of ASHRAE's Building EQ Portal to learn how the program works, basic usage of the Portal, available reports and latest updates to the system.

The Building EQ program provides solutions for both new and existing buildings and helps building owners make informed decisions to improve their energy performance by connecting them with energy audit solutions and actionable recommendations.

**Sunday, February 2**  
**4:00pm to 5:00pm**  
**Orange C, Lower Level**

For more information about ASHRAE's Building EQ Program and Portal, please visit the Building EQ web page.

[ashrae.org/BuildingEQ](http://ashrae.org/BuildingEQ)

