



CEESP Goal 2: HVAC Energy Savings & DEER Committee
Teleconference Summary Notes
Tuesday, August 2, 2016 (Scheduled from 11:00am – 12:00pm PDT)

Call to Order

The scheduled 60-minute meeting was called to order at 11:02 a.m. PDT by Rick Danks, Chair of the HVAC Energy Savings and DEER Committee and a representative of ASHRAE.

Roll Call

WHPA Staff announced those on the call and further confirmed attendance of the following 15 members and guests through participation reporting tools.

P = Present at meeting A = Absent from meeting; if proxy has been assigned it will be noted below. This Committee acts by consensus. Those eligible for official consensus voting (WHPA registration received and approved, plus participation at a meeting prior to the vote meeting) are grouped together. Only one representative of a member organization may cast an official consensus vote.				
Members (Voting Eligible)				
AHRI (Air-Conditioning, Heating, and Refrigeration Institute)	Garrett	McGuire	HVAC Manufacturer Association	P
AirTest Technologies Inc.	Mike	Schell	HVAC Manufacturer	P
ASHRAE	Richard (Rick)	Danks	Engineering Society	P (Chair)
Big Ass Solutions	Don	Dodd	HVAC Manufacturer	P
BuildingMetrics Inc.	Pete	Jacobs	Energy Efficiency Program Consultant	A (emailed in update)
CLEARresult	Michael	Blazey	Energy Efficiency Program Consultant	P
CLEARresult	Phil	Jordan	Energy Efficiency Program Consultant	P
Daikin Applied	Henry (Skip)	Ernst	HVAC Manufacturer	P
Energy Solutions	Jim	Hanna	Energy Efficiency Program Consultant	P (last 29 min)
Galawish Consulting Associates	Elsia	Galawish	Energy Efficiency Program Consultant	P
Goodman Manufacturing	Aniruddh	Roy	HVAC Manufacturer	P
SMUD (Sacramento Municipal Utility District)	Bruce	Baccei	Public Owned Utility	P
Williams Comfort	Ruth Ann	Davis	HVAC Manufacturer	P
Members (Voting Eligible Pending Meeting Attendance)				
ACCA (Air Conditioning Contractors of America)	Todd	Washam	Contractor Association	P
Rheem Manufacturing	Karen	Meyers	HVAC Manufacturer	P
WHPA Staff				
InfoPlast/WHPA Staff Support	Wendy	Worrell	Other Stakeholder	P (Host/Scribe)

** Organization is Not a Member of the WHPA; + Individual is NOT Registered with the WHPA; ^(P) after last name = Member/Registrant is Pending Approval from the WHPA Executive Committee

AGENDA

The following Agenda was distributed prior to the meeting:

1. **Roll Call** – WHPA Staff (Wendy Worrell) – 5 min
2. **Approval of Prior Meeting Minutes** – Chair (Rick Danks, ASHRAE) – 2 min
 - a. June 21, 2016 (no quorum to approve at prior meeting)
 - b. July 19, 2016
3. **Action Item Updates** – Chair (Rick Danks, ASHRAE) – 10 min
 - a. Ideas for Baseline Seminar – *Pete Jacobs (BuildingMetrics)*
 - b. DEER related Cost Effectiveness Information Gained from Kevin Madison – *Chair (Rick Danks, ASHRAE)*
 - c. Reminder: Draft DEER 2017/18 Resolution Stakeholder Comments due August 8, 2016 – *Jim Hanna (Energy Solutions)*
 - i. **NOTE:** Complete documentation and supporting material on the updated assumptions and methods as well as all of the updated values are available at DEERresources.com on the DEER2017/DEER2018 page under DEER Versions on the website Main Menu.
4. **Work Product Development: Matrices** – Chair (Rick Danks, ASHRAE) – 40 min
 - a. Quick Overview of Other Committee Resources – *WHPA Staff (Wendy Worrell)*
 - i. [WHPA Compliance Committee HVAC Compliance Definition Matrix \(Draft\)](#)
 - ii. [1.5.2 WHPA EBEE Charrette Output “Review B.E.E.S. for Cost-Effectiveness”](#)
 - iii. [EBEE Action Plan Sub-Strategy 1.5.2 Worksheet Final as of 7-12-2016](#)
 - iv. [CEC EBEE Action Plan Strategies \(Chapter 3\)](#)
 - b. Review of Draft Matrices Format for Consumer Value and Cost Effectiveness (attached) – *Chair (Rick Danks, ASHRAE)*



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- c. Thoughts on Characteristics of Cost Effectiveness - *Chair (Rick Danks, ASHRAE)*
 - i. Suggestions for Matrix

- 5. **Committee Next Steps** – Chair (Rick Danks, ASHRAE) – 3 min
 - a. Chair attendance at August 3, 2016 WHPA Cross-Committee Meeting regarding EBEE Action Plan Collaboration
 - b. Next ES&DEER Committee Meeting Date/Time: August 23, 2016 from 11:00am – 12:00pm PDT
 - c. Next ES&DEER Committee Meeting Agenda Topics
- 6. **Adjournment** by 1:00pm PDT – Chair (Rick Danks, ASHRAE)

Approval of Prior Meeting Minutes

WHPA Staff email distributed the draft June 21, 2016 meeting notes and the July 19, 2016 meeting notes to the roster prior to the meeting.

Skip Ernst (Daikin Applied) motioned to accept the [06-21-16 Meeting Minutes](#) with a second from Garrett McGuire (AHRI) to approve the June 21st meeting minutes. The motion carried with no discussion, opposition or abstention.

Garrett McGuire (AHRI) motioned to accept the [07-19-16 Meeting Minutes](#) with a second from Michael Blazey (CLEAResult). The motion carried with no discussion, opposition or abstention.

ACTION: WHPA Staff to post the approved June 21st and July 19th ES&DEER meeting minutes to the Committee’s webpage. (DONE)

Action Item Updates

ACTION UPDATE: Pete Jacobs (BuildingMetrics) to help develop a baseline webinar.

The Chair reported that Pete has a conflict with the Committee’s meeting scheduling.

WHPA Staff reported the following email update received from Pete Jacobs (BuildingMetrics). It was also noted that Pete is working to either be able to attend one meeting per month or have a proxy representative.

- ▶ Ideas for Baseline Seminar from Pete Jacobs (BuildingMetrics)
 - Proposed TOPICS:
 - Summary of AB 802
 - Summary of CPUC Staff Whitepaper on Existing Conditions Baseline
 - Summary of recent Proposed Decision by ALJ Julie Fitch regarding the Practical Implementation of AB 802.
 - TIMELINE
 - During designed ES&DEER Committee meeting slot?
 - Other?

There were no comments on the proposed topics.

The Chair indicated preference for using one of the Committee’s meeting slots and opening the meeting to the WHPA at large for the baseline webinar.

ACTION: The Chair to coordinate baseline webinar topic prioritization with Pete Jacobs.

ACTION UPDATE: Chair to gain DEER related Cost Effectiveness information from Kevin Madison.

The above referenced action item update was deferred to the next ES&DEER meeting.



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ACTION UPDATE: Jim Hanna (Energy Solutions) to provide further information on the Draft DEER 2017/18 Resolution Stakeholder Comment deadline of August 8, 2016.

Complete documentation and supporting material on the updated assumptions and methods as well as all of the updated values are available at DEERresources.com on the DEER2017/DEER2018 page under DEER Versions on the website main menu.

The Chair encouraged meeting participants to read the proposed draft and to get stakeholder comments in by August 8th.

Jim Hanna (Energy Solutions) clarified that the document does have technical engineering information. He noted that they are currently adding an “and” statement rather than an “or” statement for the Utility rebate programs or between IEER and EER statements. He noted that the graphs for the size of the survey peak IEER for DEER compared to peak in high EERs in the market place are highlighted issues. If it gets committed as documented there will be significant changes in DEER savings values based on the recommendations for DX systems and for water cooler chiller systems. There are 2 documents for review. A technical worksheet and a .pdf document. The important sections to review are about 4 to 5 pages long.

Skip Ernst (Daikin) noted that the relationship between EER and IEER is not that direct. IEER is driven by the natural efficiency of the machine but also related to control and loading capability of the machine that has nothing to do with EER. He offered an explanation of how variable speed fans raised IEERs and lowered EERs.

Jim Hanna (Energy Solutions) agreed but says it has nothing to do with DEER. There are many other nuances and consequences of what they are doing causing a domino effect. A high EER as the floor with an “and” statement it includes very high IEER equipment since it doesn’t necessarily meet the requirements for EER.

Skip Ernst (Daikin) noted that one method is to use variable frequency drives to get reduced energy consumption. Drives that hurt EER.

Jim Hanna (Energy Solutions) noted that multi-speed fans are not in DEER at all. The main point is the proposed content creates a conflict between meeting EER requirements and meeting IEER requirements.

Per Chair request, Jim Hanna (Energy Solutions) clarified that a typical official comment needs to have every number sourced from market data, engineering principles, etc. to get CPUC attention.

Work Product Development: Matrices

The Chair clarified that other WHPA Committees also have focus on aligned activities as shown on [meeting slide 6](#).

WHPA Staff provided a quick overview of the following reference documents and clarified that the WHPA Compliance definition matrix is a work in progress. The columns currently represent WHPA Stakeholder categories but are being updated to more accurately reflect the industry and process flow.

- a. [WHPA Compliance Committee HVAC Compliance Definition Matrix \(Draft\)](#)
- b. [1.5.2 WHPA EBEE Charrette Output “Review B.E.E.S. for Cost-Effectiveness”](#)
- c. [EBEE Action Plan Sub-Strategy 1.5.2 Worksheet Final as of 7-12-2016](#)
- d. CEC EBEE Action Plan Strategies (Chapter 3)

ACTION: ES&DEER Committee members to review and submit Existing Buildings Energy Efficiency Action Plan Sub-Strategy 1.5.2 stakeholder comments to WHPA Staff by August 23rd.

ACTION: WHPA Staff to consolidate received ES&DEER Committee Stakeholder comments.



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The Chair noted that in reviewing the received Sub-Strategy 1.5.2 content he recognized discussion of consumer value as well as cost effectiveness so he drafted matrices for both focuses.

- The Chair reviewed the columns and rows in the Consumer Value Matrix draft format noting that it is just a starting point and is open for discussion. He made the assumption that there is a need to look at value first and then look at cost effectiveness.
- The Chair overviewed the columns and rows in the Cost Effectiveness Matrix draft format noting that he has not yet figured out how to incorporate the value content into it. All of the rows notes are financial in nature. He had no answers for non-financial definitions of cost effectiveness and requested Committee input to make it relevant to what the Committee and WHPA are doing. The drafted content is just a starting point.

In response to Skip Ernst’s (Daikin) inquiry about the difference between small business and small commercial, the Chair clarified that accounting firms and those providing knowledge first are small business. The Chair considered service work focuses, like gas stations and repair shops, to be small commercial. The primary difference is work done in an office setting versus a non-office setting. Retail would be big box stores or large department stores. The Chair confirmed uncertainty on whether or not industrial is part of the needed matrix work.

Skip Ernst (Daikin) suggested that the columns should be **small office, small retail, large office, large retail**.

The Chair noted that he was unsure of the EBEE Sub-Strategy 1.5.2 WG focus when he generated the matrix, but would like to align to it.

Committee Next Steps

The Chair clarified that he will be attending a WHPA Cross-Committee Chairs meeting on August 3, 2016 to gain better understanding of EBEE Action Plan collaboration efforts.

WHPA Staff added that the WHPA Chairs for WE&T, Compliance, EBEE, and ES&DEER were invited to overview collaborative efforts.

The Chair reported that the next ES&DEER Committee meeting is currently scheduled for Tuesday, August 23, 2016 from 11:00am – 12:00pm PDT but that he may not be able to make that meeting.

ACTION: The Chair and WHPA Staff to determine if the August 23rd meeting will be moved.

ACTION: Committee members to notify WHPA Staff of any potential agenda topics to include for future meetings.

The Chair adjourned the meeting at 11:52 a.m. PDT.

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Outstanding Action Items and Key Decisions (from ABOVE and Prior Meetings)

1. **ACTION:** WHPA Staff to post the approved June 21st and July 19th ES&DEER meeting minutes to the Committee’s webpage. (DONE)
2. **ACTION:** The Chair’s update on information gained from Kevin Madison about DEER related cost effectiveness information was deferred to the next ES&DEER meeting. (IN PROCESS)
3. **ACTION:** The Chair to coordinate baseline webinar topic prioritization with Pete Jacobs.
4. **ACTION:** ES&DEER Committee members to review and submit Sub-Strategy 1.5.2 stakeholder comments to WHPA Staff by August 23rd. (NONE RECEIVED)
5. **ACTION:** WHPA Staff to consolidate received ES&DEER Committee Stakeholder comments. (N/A)
6. **ACTION:** The Chair and WHPA Staff to determine if the August 23rd meeting will be moved. (The meeting was cancelled.)



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7. **ACTION:** Committee members to notify WHPA Staff of any potential agenda topics to include for future meetings.

CONTINUED FROM PRIOR MEETINGS

1. **ACTION:** Members who are so inclined are reminded to submit their stakeholder comments on the Draft DEER 2017/18 Resolution by August 8, 2016.
2. **ACTION:** Committee members to notify WHPA Staff (wendy@performancealliance.org) of any Implementation Plan SMART Goals they wish to focus on directly.