



**WHPA Quarterly Joint Meeting of the
Executive Committee, Council of Advisors, and Chairs
August 16, 2017**

Call to Order

Mark Lowry (BBI COO) called the meeting to order at 12:05 p.m. PDT.

Roll Call – Attendance

A quorum (eight or more) of the Executive Committee (EC) was present or represented by proxy.

Organization	First Name	Last Name	WHPA Category	Present/Absent
Executive Committee (also on Council of Advisors)				
ACCA (Air Conditioning Contractors of America)	Don	Langston	Contractor Association	P
AHRI (Air-Conditioning, Heating, and Refrigeration Institute)	Garrett	McGuire	HVAC Manufacturer Association	
ASHRAE	Ron	Jarnagin	Engineering Society	
CEC (California Energy Commission)	Lea	Haro	Government (Other than CPUC)	P
CPUC (California Public Utilities Commission) Energy Division	Steve	Rickert	CPUC	P
HARDI (Heating, Airconditioning & Refrigeration Distributors International)	Talbot	Gee	Distributor Association	P
IHACI (Institute of Heating and Air Conditioning Industries)	Bob	Wiseman	Contractor Association	P
JCEEP (Joint Committee on Energy and Environmental Policy) Western States Council	Dave	Dias	Organized Labor	P
NCI (National Comfort Institute)	Dominick	Guarino	Educator, Trainer	P
PG&E (Pacific Gas and Electric Company)	Christian	Weber	California IOU	
SCE (Southern California Edison)	Scott	Higa	California IOU	P
SDG&E (San Diego Gas & Electric)	Paul	Thomas	California IOU	P
SoCalGas (Southern California Gas Company)	Harvey	Bringas	California IOU	P
UA (United Association)	Don	Tanaka	Organized Labor	P
Remaining Council of Advisors				
CCCCO (California Community Colleges Chancellors Office)	Jim	Caldwell	Educator, Trainer	P
PG&E (Pacific Gas and Electric Company)	Michelle	Cheda	California IOU	P
PHCC (Plumbing-Heating-Cooling Contractor National Association)	Chuck	White	Contractor Association	P
SDG&E (San Diego Gas & Electric)	Jeremy	Reefe	California IOU	P
SoCalGas (Southern California Gas Company)	Hackett	Barney	California IOU	P
Remaining Chairs				
ACCA (Online Permitting Working Group)	Louis	Fuentes	Contractor (Nonresidential)	P (voting for ACCA)
AMS (CQM UGT Working Group)	Marc	Pickett	Contractor (Nonresidential)	P
ASHRAE (CQM UGT Working Group)	Rick	Danks	Other Stakeholder	P
CALBO (Compliance Committee)	Bob	Barks	Codes & Standards (Association or Jurisdiction)	P
NCI (GAPs Working Group)	Mel	Johnson	Educator, Trainer	P
NCI (CQI Committee)	Rob	Falke	Educator, Trainer	P
Roltay (RQI Committee)	Buck	Taylor	Other Stakeholder	P
SynergyNexGen (EBEE Committee)	Barbara	Hernesman	Energy Efficiency Program Consultant	P
Remaining Guests				
PG&E (Pacific Gas and Electric Company)	Mark	Salavitch	California IOU	P



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WHPA Staff Support				
BBI (Facilitator)	Mark	Lowry	Energy Efficiency Program Consultant	P
BJGustavson Consulting (WebEx)	Bonnie	Gustavson	Other Stakeholder	P
Key SEO/Key Marketing Group (Scribe)	Judy	Johnson	Other Stakeholder	P

Agenda

Topic	Discussion Leader
Roll Call	Bonnie Gustavson
Approve Minutes of July 19, 2017, EC Meeting	Mark Lowry
Industry Perspectives	Don Tanaka, UA
WHPA Streamlining – Creation of New Committee	Paul Thomas, SDG&E
ASHRAE Updates	Rob Falke, NCI
New Business and Adjourn	Mark Lowry

Approval of July 19, 2017, EC Meeting Minutes – to be posted on WHPA website

ACTION by Paul Thomas (SDG&E) – At his request, he will make several small edits to the July 19 EC notes to modify his comments slightly and send to Staff to update the approved minutes and post them on the website.

ACTION by Staff to update the notes posted on the website once Paul Thomas’ (SDG&E) comments are received and incorporated into the revised minutes.

MOTION made by Paul Thomas (SDG&E) and seconded by Dominic Guarino (NCI) to approve the EC Meeting Minutes of July 19, 2017, with changes to be made by Paul Thomas (SDG&E) to his own comments of those EC Meeting Minutes. All EC members present voted in favor of passing the motion with one abstention cast by Steve Rickert (CPUC). Motion **CARRIED**.

Industry Perspectives – PPT posted on website

PERSPECTIVE SHARED by Don Tanaka (UA) – The UA has always been very motivated about training. With the new automation, equipment, and energy savings, there is a lot of continuing education at all levels of union technicians—both apprentices and journeymen. Eyes are on the state of California, and the new acceptance testing for new and retrofit buildings is attracting a lot of attention. Other states are watching. They are also watching the UA in California in its work with the IOUs.

- Energy savings will create jobs for the union, and there is a technical (enhancement) side as well.
- The UA instructors come from all over the US and Canada for train-the-trainers at the UA Education Center in Michigan.
- The apprenticeship conference from the US and Canada is being held again, and it is a team competition. They take their work very seriously and have pride.

Training is so important; it is our future. Technicians need to know the system and the operation of it, and the UA is pushing forward on this.

QUESTION by Scott Higa (SCE) – Is there further information on the training-for-acceptance testing?

ANSWER by Don Tanaka (UA) – California mandates acceptance testing for certain classes of equipment once equipment is installed or retrofitted. That testing is done by an independent person, not the installer. They evaluate how well the installation was done and if it meets the codes. That acceptance technician must sign off; and he answers to the State of California. The UA teaches technicians how to do these tests, and the State of California checks the education.

ACTION opportunity from Don Tanaka (UA) to participants on this call – You are all invited to tour the UA 250 Training Center in Los Angeles.

COMMENT by Jim Caldwell (CCCCO) – The UA Training Center tour is extremely impressive, and I encourage people to take it.

WHPA Streamlining – Creation of New Committee

COMMENT by Paul Thomas (SDG&E) – The IOUs have been discussing the topic of streamlining the WHPA. We are asking the EC to approve the formation of a new committee (per the WHPA Charter). The new committee would develop the strategy for the WHPA or, even more broadly, for the HVAC industry stakeholders and IOU engagement in 2018 and beyond. I think this is in harmony with the WHPA Charter and is a wise move. At the July EC Meeting, I commented on this need to streamline the WHPA and the need for improvement. I don't think there is any disagreement on that, but how you achieve that is tricky. That is why I think we need a focused committee to address this.

EMAIL COMMENT by Talbot Gee (HARDI) to Paul Thomas (SDG&E) suggesting that the Executive Committee make streamlining recommendations.

COMMENT by Paul Thomas (SDG&E) – In 2018 it is very unlikely that the IOUs will have a facilitation contract, which means that all Staff support of the WHPA will go away. That will make a big change in how the WHPA operates. It is extremely important to the IOUs to stay engaged with the HVAC industry; it is in harmony with policy guidance; and it is good business (for the IOUs).

ACTION suggested by Paul Thomas (SDG&E) – I would like to lead or co-lead this proposed Streamlining Committee with perhaps an industry stakeholder as a co-chair. This proposed Committee would work at an aggressive pace, meeting weekly or bi-weekly, so that it can figure out in sixty (60) days what is going to happen (to the WHPA and for the IOUs to receive HVAC industry input). Full day on November 1 and half day on November 2 at the WHPA In-Person Meeting is scheduled in Pasadena, and that seems an appropriate time to roll out the strategy to a broader group of people and to start the new engagement strategy.

COMMENT by Don Tanaka (UA) – I am in favor of anything to streamline and make things better, as long as we move in a positive direction. I think of Erik Emblem (formerly of JCEEP) who moved us in the right direction many years ago.

QUESTION by Mel Johnson (NCI) – There are a lot of pending Business Plan decisions. Are the IOUs still operating under the decision of the Strategic Plan until alterations are made?

ANSWER by Paul Thomas (SDG&E) – Yes, the pending Business Plan decisions are a big driver for this. As far as the Strategic Plan, I need a more definitive response from our policy people, but my thought is that the Strategic Plan is very outdated; it has not been updated since January 2011. The IOUs have been given the following informal guidance from CPUC staff: “*Why are you going back to the Strategic Plan?*” The IOUs are in a precarious situation because the Strategic Plan is outdated.

COMMENT by Mel Johnson (NCI) – Most of us have been involved in the WHPA for several years, and we know what it is like to create new committees. It is really important to have the goals of this new committee nailed down quickly.

RESPONSE by Paul Thomas (SDG&E) – We need a vote of the EC to form this Streamlining Committee. Then the first step for the new Committee is to decide what they want to accomplish.

Part of that would be the IOUs sharing their goals, expectations, wants, and needs out of an organization like the WHPA and similarly hear from the HVAC industry stakeholders so that we can determine where there is alignment and where there is potential conflict between the two groups. Then we would create a set of goals for the committee and take a fresh look at how we accomplish them.

The IOUs have been talking about this for quite some time. We looked at the WHPA's goals in the Charter and asked, “How important are these goals to the IOUs now? How well are we accomplishing them with the WHPA right now?” We also have been working on a fairly concise statement of what we see as the IOU's role in the near term with Business Plans being approved and what we see our role morphing into. We will be prepared to discuss that at the In-Person Meeting on Day #1. There are already some clear thoughts from industry stakeholders with whom I have spoken.

QUESTION by Dave Dias (JCEEP) – So what you are saying is that this committee will develop a set of goals then come up with a roadmap to accomplish the goals?

ANSWER by Paul Thomas (SDG&E) – Yes. I know that you will want to be involved with this, right Dave?

ACTION by Dave Dias (JCEEP) – Yes, I will participate in this new Committee.

COMMENT by Paul Thomas (SDG&E) – Is there anyone who thinks this is not a good idea and who wants to comment?

QUESTION by Mark Lowry (BBI) to Paul Thomas (SDG&E) – What does what you have described mean for the current Committees and Working Groups for August through the end of December 2017?

ANSWER by Paul Thomas (SDG&E) – Mark Salavitch (PG&E) is working from an administrative standpoint for ramp-down of the current activities. It will affect Committee activities in 2017. Committees and Working Groups should continue with business as usual until there is more definitive output from the Streamlining Committee and from the administrative output.

QUESTION by Mark Lowry (BBI) – I have a question for any Committee chairs on the line. With the IOUs not planning to have a facilitation contract in place with the WHPA for 2018, does that mean anything for you (and your Committees) in terms of the goals, milestones, and work products through the end of 2017?

COMMENT by Scott Higa (SCE) – In response to Mark Lowry's (BBI) question. It is good timing because I have a question from Rob Falke's (NCI) CQI Committee as to what the Committee should focus on from now until the end of the year. What is the best use of the CQI Committee members' time? That could be a good place to start.

COMMENT by Louis Fuentes (ACCA) – I am Chair of the Online Permitting Working Group. We should be finalizing our work and the final best practices memo in the next few weeks and moving it up to the Compliance Committee. That will wind down the task that that Working Group was asked to do.

COMMENT by Don Langston (ACCA) – I think any organization should periodically review their missions, vision, and effectiveness. I am in favor of this.

COMMENT by Bob Wiseman (IHACI) – I think it is appropriate to reevaluate where the WHPA is. Is there a better way to do what we are doing? We want the time put in by the volunteers be used as effectively as we can.

MOTION made by Louis Fuentes (ACCA) and seconded by Bob Wiseman (IHACI) to set up a new Streamlining Committee with the mission of providing recommendations for streamlining the WHPA. All EC members present voted in favor of passing the motion with one abstention cast by Steve Rickert (CPUC). Motion **CARRIED**.

ACTION for EC, COA, or Committee/Working Group Chair who wish to be on the Streamlining Committee to email Paul Thomas, pthomas@semprautilities.com. The first meeting will be within the next two weeks.

ASHRAE Updates – posted on WHPA website

PRESENTATION by Rob Falke (NCI), Chair of the WHPA Commercial Quality Installation (CQI) Committee, which sponsors the Proposed ASHRAE Standard 221 work within the WHPA – This is an update on the Proposed ASHRAE Standard 221 Committee, which met on June 26 at the Long Beach ASHRAE Summer Meeting. I have worked hand-in-hand with the ASHRAE Committee.

The Test Method to Field-Measure and Score the Performance of an Installed Unitary HVAC System is quite revolutionary and is for commercial and residential systems.

There are five different tests. The simplest is a ratio of the system-delivered Btu into the building divided by the equipment-rated Btu. 56% is the average. It also measures and evaluates efficiency measures and documents the deterioration in performance caused by the installation. This test offers a major shift in the way we can realistically measure and evaluate efficiency. This measures what the consumer is actually receiving.

The improvement in the individual system, after correction, can also be measured. This can replace both average savings and deemed savings, which have been used to date. It also measures and documents the improvement in performance after upgrades are completed. Improvement can be measured and verified for each individual system; the typical system score is improved to 88%, a 32% increase.

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At the June 26 Proposed Standard 221 Committee meeting, the Pre-Final Standard was reviewed and distributed. There was a vote on the proposed new title, scope, and purpose of the Standard, and there were also edits and suggestions received from the Committee and ASHRAE. On July 31, the Proposed Standard 221 Committee members unanimously approved a Public Review draft of the Proposed Standard.

The expected schedule for advancement of the Proposed Standard is as follows:

1. October/November 2017 – 221 Available for Public Review and answer Public Review Comments
2. December 2017 – Possible additional Public Review period
3. January 2018 – Approval by ASHRAE Standards Committee at the ASHRAE Winter Meeting

QUESTION by Dave Dias (JCEEP) – I sit on ASHRAE Technical Committee 5.2. Does this Proposed Standard 221 take into consideration for design? This was not brought up on TC 5.2.

ANSWER by Rob Falke (NCI) – ASHRAE 221 Committee reports to ASHRAE Technical Committee 7.3. This is not a design issue; it is simply a test of how the system performs. We measure the net results of the design.

QUESTION by Buck Taylor (Roltay) – Design does have a big problem, and this is part of the problem that utility programs have tried to do with Measurement and Verification programs for a long time. We keep trying to compare to a standard EER value. The problem is that I can get two totally different results testing the same unit on the same day due to the load and external temperature variations on the same day. So how do you take that variability into account? Utility programs often get penalized for negative savings.

ANSWER by Rob Falke (NCI) – We have provided for that. It is a long story, and I can talk with you off line about this. It will be out for Public Review before too long. The above questions from both Dave Dias (JCEEP) and Buck Taylor (Roltay) were brought up during the process.

- Updates to Public Review Draft – Changed and recalculated the uncertainty analysis to reflect a wider variable in field testing as requested by the Committee. Annex C shows an average uncertainty of 14%.
- The final draft contains 82 pages, 5 system performance scoring methods, 24+ test procedures, 40+ calculations, 23 tables, 4 data collection reports, 14 illustrations, and 6 appendices.
- We were charged to make this understandable to technicians in the field.

We give lots of thanks to the WHPA (Committees) that supported this work. A lot of the foundational work on Proposed Standard 221 was by the WHPA.

ACTION offered by Rob Falke (NCI) to talk later with anyone who wants to discuss further.

COMMENT by Rick Danks (ASHRAE) – I attended the ASHRAE Meeting and would like to share my perspective on the ASHRAE Summer Meeting.

- I was directly involved with the Project Committee for ASHRAE Standard 180. Significant progress was made at the Summer Meeting. We got a vote on Section 1 and Section 2 as being approved as written, meaning that they are ready for public review.
- Consensus was achieved on several paragraphs in Section 4, which is the description of the standard requirement. There is a little more work to do there. There was a little chicken-and-egg circumstance with Section 3. Some of the definitions, Section 3, needed to wait until there was consensus on verbiage in Section 4 before the text in 3 could be fully sorted.
- There has been a provisional approval, although the vote and the motion were made knowing that the definitions would be modified.
- There have been some proposed changes to the equipment table, so there will be a little more alignment between now and January 2018 in Chicago.
- We hope to get most if not all of the document fully vetted and ready for public review at the end of the Chicago Meeting. There have been a couple changes with CQM and the WHPA Working Group dealing with the Standard 180 User Manual. Some of the issues and changes within the ASHRAE work have been better understood by the Working Group and some changes have been made there.
- I expect by September the WHPA Working Group will be reconstituted and will get the User Guide much closer to completion.



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New Business and Adjourn

The next Executive Committee Meeting is Wednesday, September 20, 2017, at 12:00 p.m. Pacific Time.

The meeting adjourned at 1:16 p.m. PDT.

Notes by Judy Key Johnson

WHPA Staff

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www.performancealliance.org