



# WHPA FDD Committee Meeting April 24, 2017

Co-Chair Sean Gouw, P.E., SCE  
and

Co-Chair Joe Schmutzler, CEM, CLEP, LEED AP, Transformative  
Wave



...**For Announcing** your **name** and your **organization**  
when you speak

*and*

...**For Muting** your phone when you are not speaking



# Agenda

- ▶ Roll Call
- ▶ Approval of March 20, 2017, Meeting Notes
- ▶ Intro
- ▶ Discuss FDD Roadmap
- ▶ Discuss FDD-CQM Activities
- ▶ Next Steps and Adjourn


# Roll Call

- ▶ Bonnie Gustavson

<input checked="" type="checkbox"/>	_____
<input type="checkbox"/>	_____
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# Approval of March 20, 2017, Meeting Notes

## ► Elsia Galawish



**Goal 3: Field Detection & Diagnostics (FDD) Committee**  
**Monday March 20, 2017, Meeting Notes**

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**WHPA Code of Conduct:** <http://www.performancealliance.org/Home/CodeofConduct/tabid/205/Default.aspx>. Please note that all participants of all Western HVAC Performance Alliance (WHPA) meetings, standing committees, subcommittees, and ad hoc groups shall adhere to the WHPA Code of Conduct.

**Call to Order**

Co-Chair Sean Gouw (SCE) called the first meeting of the FDD Committee for 2017 to order at 10:03 a.m. PDT.

AGENDA	
TOPIC	DISCUSSION LEADER
Roll Call/Approval of Minutes	Bonnie Gustavson/Elsia Galawish
Presentation by Davis Energy Group on California T-24 Residential Quality HVAC CASE Activity – FDD topics	David Springer, Davis Energy Group
Presentation by TRC Solutions on California T-24 Nonresidential FDD CASE Activity	Farhad Farahmand, TRC Solutions
Discuss Draft FDD Committee 2017 Goals & Implementation Plan	Sean Gouw, SCE
Next Steps and Adjourn	Sean Gouw/Elsia Galawish

**Roll Call / Approval of 2/13/2017 Meeting Minutes**

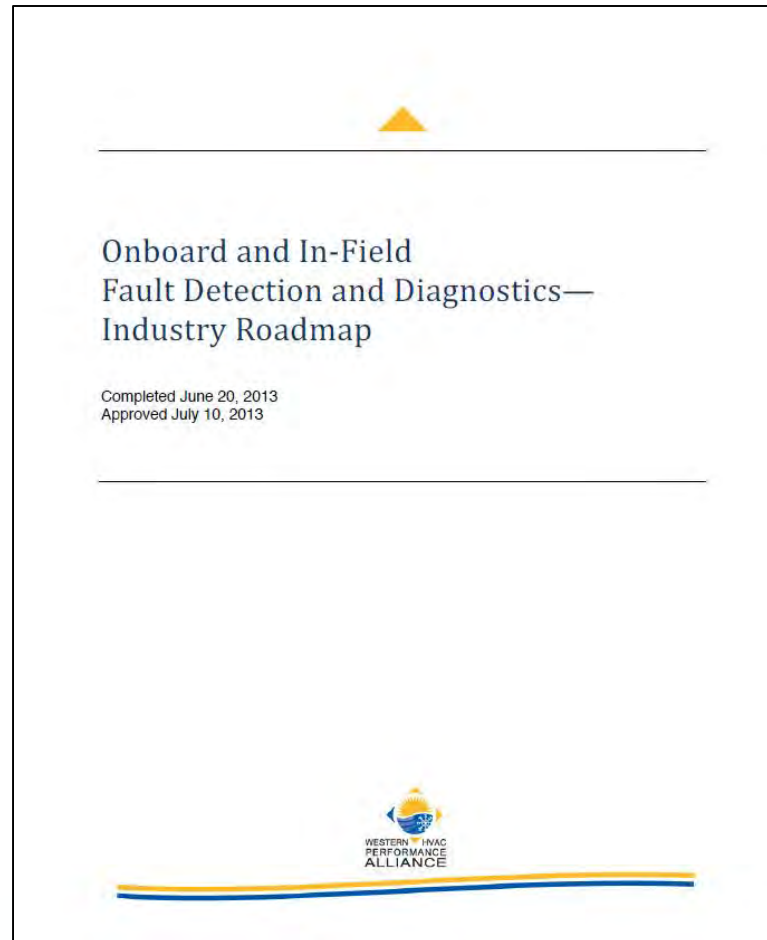
A quorum of the FDD Committee voting members was present. A total of 16 members, guests, and Staff attended. To avoid repetition, the abbreviation for the name of the member organization will be used in the body of the minutes.

Organization	First Name	Last Name	WHPA Category	P=Present
<b>Voting Members</b>				
ACCA (Air Conditioning Contractors of America)	Glenn	Hourahan	Contractor Association	
Carrier Corporation	Dick	Lord	HVAC Manufacturer	P
Daikin Applied	Skip	Ernst	HVAC Manufacturer	P
Ezenics, Inc.	Benjamin	Kelderman	Other Stakeholder	



# Next Steps from Previous Meeting

- ▶ ~~Vote on 2017 Goals & Implementation Plan via e-mail~~
- ▶ Committee e-mail comments on FDD roadmap, target 4/10



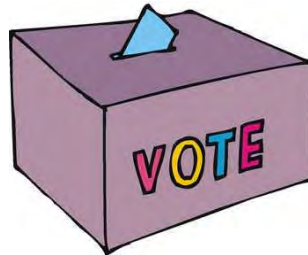
# Confirmed Meetings for 2017



- ▶ ~~2/13/2017~~
- ▶ ~~3/20/2017~~
- ▶ 4/24/2017
- ▶ 5/15/2017
- ▶ 6/12/2017
- ▶ ...?

## Voting Results on 2017 FDD Implementation Plan

- ▶ 14 Aye Votes
- ▶ 0 Nay Votes
- ▶ 1 Abstention
- ▶ 1 no-vote due to Vacation



Committee/Working Group 2017 Implementation Plan				
Committee/Working Group: Fault Detection and Diagnostics Committee (FDD)				
<b>Committee Description/Mission:</b> The work of this committee is to support CEESP HVAC Goal 4 (Increasing the percent of shipments of HVAC equipment that is optimized for the California climate), by focusing on strategies 4.5 (onboard FDD) and 4.6 (in-field FDD). The primary barrier to achieving these strategies is owner lack of recognition of the potential for HVAC problems, and recognition of the benefits that FDD technologies could provide. Integrating the FDD system with the owner's decision-making process and the contractor's service delivery process is a necessary component to accomplishing this Goal.				
Goal #: Re-Visit FDD Roadmap Milestone	Owner	Deliverable	Due Date	Dependencies
1. Committee Review, Provide Feedback, Round 1	WHPA Staff, Chairs, Committee Members	Comments (e-mail, word doc, tracked changes/comments, or other)	April 10, 2017	• Availability & Participation of WHPA Staff, Chairs, & Committee Members
2. Hold discussion at meeting 3	WHPA Staff, Chairs, Committee Members	N/A	April 24, 2017	• Availability & Participation of WHPA Staff, Chairs, & Committee Members
3. Committee Review, Provide Feedback, Round 2	WHPA Staff, Chairs, Committee Members	Comments (e-mail, word doc, tracked changes/comments, or other)	May 8, 2017	• Availability & Participation of WHPA Staff, Chairs, & Committee Members
4. Hold discussion at meeting 4	WHPA Staff, Chairs, Committee Members	N/A	May 15, 2017	• Availability & Participation of WHPA Staff, Chairs, & Committee Members
5. Updated FDD Roadmap, Present at Meeting 5	WHPA Staff, Chairs, Committee Members	Updated FDD roadmap	June 12, 2017	• Availability & Participation of WHPA Staff, Chairs, & Committee Members



# Goals for 2017

- ▶ **Re-Visit FDD Roadmap**
  - Update document
- ▶ **Continue CQM-FDD Activities**
  - Update CA CQM Considerations & Recommendations Document = Advise on structure of CQM measures, role of FDD
  - Formal link with WHPA CQM Committee?
- ▶ **2019 California T-24 Codes & Standards FDD Activities**
  - Hold discussions for
    - Nonresidential – Economizer FDD for built-up HVAC
    - Residential Quality HVAC FDD topics



# Implementation Plan 2017

## ▶ Re-Visit FDD Roadmap

- 1st round updates discussion on 4/24, 2nd round updates discussion on 5/15
- Incorporate updates to roadmap by 6/12

## ▶ Continue CQM-FDD Activities

- Update CA CQM Considerations & Recommendations Document = Advise on structure of CQM Measures, role of FDD
  - 1st round updates discussion on 4/24, 2nd round updates discussion on 5/15
  - Incorporate updates by 6/12
- Formal link with WHPA CQM Committee?

## ▶ 2019 California T-24 Codes & Standards FDD Activities

- Hold discussions for CASE FDD topics as needed by 6/12
  - Nonresidential – Economizer FDD for built-up HVAC
  - Residential Quality HVAC FDD topics



## Discuss FDD Roadmap

- ▶ Joe Schmutzler
- ▶ Transformative Wave
- ▶ Director, Global Relations



## FDD-CQM Activities

- ▶ Update CA CQM Considerations & Recommendations Document = Advise on structure of CQM measures, role of FDD
  - Refer to Work Product “FDD Committee Recommendations & Considerations”
- ▶ Formal link with WHPA CQM Committee?

## Next Steps and Adjourn

- ▶ Present updated FDD roadmap at 5/15 meeting
- ▶ Next FDD Committee Meeting
  - Monday
  - May 15, 2017
  - 10–11 a.m. PDT

