





## WHPA Fault Detection and Diagnostic Committee (FDD) Work Product Status Report – November 20, 2017

WHPA Fault Detection and Diagnostic Committee (FDD)		
<ul style="list-style-type: none"> <li>• <b>Goal #2:</b> Continue CQM-FDD Activities</li> <li>• <b>Goal #3:</b> Host Discussions for CA T-24 Codes and Standards Enhancement Activities, FDD Topics</li> </ul>		
<b>Chairs: Sean Gouw, SCE / Joe Schmutzler, Transformative Wave</b>		
<b>Last meeting: Work Product Discussion</b>	<p><b>Agenda Items: Last Meeting Goal#2 Discussed - September 18, 2017</b></p> <ul style="list-style-type: none"> <li>• Review of Goals/Implementation Plan</li> <li>• FDD Roadmap Update – Final Review</li> <li>• CQM-FDD Activities</li> </ul> <p><b>Agenda Items: Last Meeting Goal#3 Discussed – March 20, 2017</b></p> <ul style="list-style-type: none"> <li>• Presentation by Davis Energy Group on California T-24 Residential Quality HVAC CASE Activity – FDD topics</li> <li>• Presentation by TRC Solutions on California T-24 Nonresidential FDD CASE Activity</li> </ul>	 9-18-17 FDD Committee Meeting Nc   3-20-17 FDD Committee Meeting Nc
<b>Current Status of Work Products</b>	<p><b>Goal#2: See embedded File for details</b></p> <p>It was recognized that there is much difficulty in establishing an additional active measure for FDD. There are a variety of challenges inherent with establishing new IOU program measures that cannot be quickly or easily overcome. It remains a challenge to directly attribute and quantify savings for FDD. FDD facilitates better implementation of other optimizing measures but it does not directly achieve savings. It is also recognized that there are currently no industry-accepted methods for performance quantification of FDD. The committee was interested in eventually making recommendations for the structure of CQM measure offerings. One FDD member, who is also a participant/working group chair in the CQM committee, indicated that the CQM committee would have challenges taking on any additional FDD activities.</p>	 Status Report_Final_Goal2_...
	<p><b>Goal#3. Completed in May 2017</b> - 2019 California T-24 Codes &amp; Standards FDD Activities: FDD Committee’s discussions on this topic for both the residential and non-residential sectors were enough to feed into the ongoing T24 update process. This item is considered complete unless the Committee hears from Farhad Farahmand (TRC) or Davis Energy group for any needed follow up discussions/information. No such request has been</p>	

	made to date.	
<b>What Remains to be Done to Complete Work Product- Goal#2?</b>	<p><b>Considerations &amp; Recommendations: status/next steps:</b></p> <ul style="list-style-type: none"> <li>• Cannot finalize update of the FDD Considerations &amp; Recommendations document due to unknown state of IOU CQM programs and unknown capacity of WHPA CQM committee to take on additional FDD-related activities. At this point it is premature and difficult to make any meaningful recommendations regarding the role of FDD in CQM programs.</li> <li>• Draft status report – where the work product is and what could be done in the future.</li> </ul> <p><b>For FDD Integration: Where do we go from here?</b></p> <ul style="list-style-type: none"> <li>• FDD has a future role in assisting with pay-for-performance savings calculations via Normalized Metered Energy Consumption (NMEC) methods for High Opportunities Programs and Projects (HOPPs)</li> <li>• Fault designations</li> <li>• Technology review – fault test, fault reporting</li> <li>• BSR / ACCA 15 IBD – 201x on-Board Diagnostics Standard can help</li> </ul> <p>The <i>WHPA FDD committee recommendations document</i> should be committed to continually furthering the understanding of the changing landscape of FDD technologies. The committee should solicit updates from the CA CQM programs, to give a better idea of where they stand, so FDD recommendations can be made. The committee should also broaden their consideration of FDD in other roles beyond CQM. For example, considering the possible supporting role FDD can play in Normalized Metered Energy Consumption (NMEC) analysis, or FDD integration and online reporting with building energy management systems (EMS). The committee should continue to pursue any joint opportunities that may be possible with the WHPA CQM committee.</p>	<p><i>See embedded Status Report document above</i></p>  <p>FDD Recommendations anc</p>
<b>Level of Interest to Complete Work Product</b>	The FDD Committee is willing to continue with the work as outlined above in the recommendations pending the outcome of the HSES Committee’s WHPA restructuring activities.	