Workpaper Plan

HVAC Commercial Quality Maintenance

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1. Approach

Following narrative describes methodology adopted by PG&E for revisions to existing HVAC Commercial Quality Maintenance (CQM) work papers, which include:

* PGE3PHVC151 – Economizer Repair
* PGE3PHVC152 – Economizer Controls
* PGE3PHVC156 – Condenser Coil Cleaning
* PGE3PHVC157 – Unoccupied Supply Fan Control
* PGE3PHVC158 – Evaporator Coil Cleaning
* PGE3PHVC160 – Refrigerant Charge Adjustment

Each workpaper will be evaluated for minor content revisions related to Resolution E-4818 and recent impact evaluation report HVAC3. However, adjustments to the workpaper methodologies will not be required per E-4818, as these measures already utilize an existing conditions baseline. Each workpaper utilizes DEER prototype eQUEST models to serve as the measure scenario, with certain existing conditions faults modeled to represent the existing conditions baseline.

Measure cost analysis and as-need updates will also be performed for each workpaper, as the current cost reference (2010-2012 WO17 Ex Ante Measure Cost Study) may be outdated.

1. Methodology for Evaluating Measure

The existing approach for evaluating energy and demand savings will be retained and will not be updated or adjusted. The current workpapers utilize DEER prototype eQUEST models to serve as the measure scenario, with adjustments to account for damper leakage findings from HVAC impact evaluation report WO32. Faults are modeled to simulate the existing conditions baseline for each measure. As such, this approach will not need updates per E-4818.

1. Measure Cost Analysis

Measure costs will developed from technician survey responses for at least three separate contractors per workpaper, but with a target of 10 contractors. Survey data may be supplemented with information from additional data sources that may include, but are not limited to:

* RSMeans
* 2010-2012 WO017 Ex Ante Measure Cost Study and/or latest CPUC supported cost study

1. Timeline and Budget

Workpaper updates are expected to be completed within six weeks from notice to proceed.

1. Attachment

N/A