Work Paper SCE17HC012

**Revision 1**

**Short Form**

**Southern California Edison**

**Unitary Air Cooled Commercial Air Conditioning and Heat Pump Units Under 65 kBtuh**

**Introduction**

This short form workpaper documents (WP) ex-ante parameters and measure implementation characteristics adopted by SCE from PGE’s WP entitled “PGECOHVC126 R6 - Unitary ACHP under 65kBtuh.” SCE adopts all ex-ante requirements in PGECOHVC126 R6 - Unitary ACHP under 65kBtuh, with the following exceptions.

1. All ROB measure impacts have been updated from DEER2015 (D15 v1.0) to DEER2017 (D17 v2) from latest READi.
2. Early retirement (ER) is not supported by SCE and it is not expected to be implemented by program in 2018.

# Document Revision History

|  |  |  |  |
| --- | --- | --- | --- |
| **Rev** | **Date** | **Author** | **Summary of Changes** |
| 0 | 02/02/2018 | Andres Fergadiotti/SCE | 1. SCE’s calculation template is based on PGE’s template “PGECOHVC126 R6”. 2. Removed Early Retirement data. 3. Measure impacts have been updated from DEER2015 (D15 v1.0) to DEER2017 (D17 v2) from latest READi |

**Measure Summary**

Table 1: Measure Summary Table

| **Section** | **Value** |
| --- | --- |
| **Summary & Purpose** | This short form workpaper documents ex-ante load impacts and cost-effectiveness values for Unitary ACHP under 65kBtuh.  Measure impacts have been updated from DEER2015 (D15 v1.0) to DEER2017 (D17 v2) taken from latest READi. There are no major variations on measure impacts from the DEER2017.  Early retirement (ER) is not supported by SCE and it is not expected to be implemented by program in 2018 |
| **1.1 Measure & Baseline** | Please refer to Attachment #1 Calculation Templates for the list of measure solution codes and baseline condition. |
| **1.2 Technical Description** |  |
| **Measures** | 1. No difference in ROB measures. 2. Removed ER savings. |
| **Code for All Measures** | Please refer to Attachment #1 Calculation Templates for the list of measure solution codes. |
| **Requirements** | Please refer to PGECOHVC126 R6 - Unitary ACHP under 65kBtuh workpaper for details on requirements. In addition to PG&E workpaper requirements, see below for additional SCE requirements:   * The program delivery mechanism is Up-Stream and Mid-Stream Incentive, Buy Down Programs. * The Up-Stream and Midstream Incentive, Buy Down Program will give financial incentive to HVAC sales distribution channels, such as manufacturers and distributors (Upstream and Midstream Market Actor), in order to stock and upsell premium high efficiency equipment. Installation types include replace on burnout (ROB). |
| **1.3 Installation Type and Delivery Mechanisms** |  |
| **Installation Type** | ROB only |
| **Delivery Mechanisms** | Mid-Stream Programs: Mid-Stream Incentive  Up-Stream Programs: Up-Stream Incentive |
| **1.4.1 DEER Data** |  |
| **Net-Gross-Ratio** | No Difference. |
| **Effective and Remaining Useful Life** | No Difference. |
| **Section 2. Calculation Methodology** |  |
| **Energy savings/Peak Demand Reduction – All Measures** | No Difference. |
| **Section 3. Load Shapes** | No Difference |
| **Section 4. Costs** |  |
| **Section 4.1 Base and Measure Costs** | Please refer to Attachment #1 Calculation Templates for detailed baseline and measure costs. No difference from PG&E workpaper. |

**Savings and Calculation Methodology**

Savings impacts revised based on latest READI - DEER2017 (D17 v2) requirements.

**Attachments**

1. SCE17HC012.1 A1 Calculation Templates\_Final