**Work Paper PGECOFST116**

**Demand Ventilation Controls**

**Revision # 4**

**Pacific Gas & Electric Company**

**Customer Energy Solutions**

**Commercial Kitchen Demand Ventilation Controls**

**Measure Codes F150**

**At-a-Glance Summary**

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| **Applicable Measure Codes:** | **F150** |
| **Measure Description:** | Commercial Kitchen Demand Ventilation Control |
| **Energy Impact Common Units:** | Source: PG&E Calculations Per nameplate rated exhaust fan horsepower (Exh HP) |
| **Base Case Description:** | Source: PG&E Calculations.  Single-speed commercial kitchen exhaust system |
| **Base Case Energy Consumption:** | Source: PG&E Calculations.  7,172 kWh/yr/Exh HP and 404 therms/yr/Exh HP |
| **Measure Energy Consumption:** | Source: PG&E Calculations.  2,976 kWh/yr/Exh HP and 299 therms/yr/Exh HP |
| **Energy Savings (Base Case – Measure)** | Source: PG&E Calculations.  4,197 kWh/yr/Exh HP and 105 therms/yr/Exh HP |
| **Costs Common Units:** | Source: PG&E Calculations Per nameplate rated exhaust fan horsepower |
| **Base Case Equipment Cost ($/unit):** | Source: PG&E Calculations.  $0 |
| **Measure Equipment Cost ($/unit):** | Source: PG&E Calculations.  $1,991/Exh HP |
| **Measure Incremental Cost ($/unit):** | Source: PG&E Calculations.  $1,991/Exh HP |
| **Effective Useful Life (years):** | Source: PG&E.  EUL = 15 years |
| **Program Type:** | |  | | --- | | Replace on Burnout (ROB), and New Construction (NC). | |
| **Net-to-Gross Ratios:** | Source: 2011 DEER Default  0.6 |
| **Important Comments:** |  |

**Work Paper Approvals**

The following Manager(s) approved this workpaper through the PG&E Electronic Data Routing System under Routing Requisition # \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| **Grant Brohard**  Manager, Technical Product Support |
| **Carolyn Weiner**  Manager, Appliance Products |

**Document Revision History**

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| --- | --- | --- | --- | --- | --- | --- |
| **Revision #** | **Revision Date** | | | **Section-by-Section Description of Revisions** | | **Author (Company)** |
| Revision 0 | | 12/21/2007 | Original work paper : Demand Ventilation Controls PGECOFST116 R0.doc | | David Zabrowski (Fisher-Nickel, Inc.) | |
| Revision 1 | | 6/1/09 | Changes to EUL, NTG language and references, costs updated | | David Zabrowski, Lauren Mills (Fisher-Nickel, inc.), Steve Blanc PG&E | |
| Revision 2 | | 3/31/2010 | Update to DEER 2009-11 NTG file | | David Zabrowski (Fisher-Nickel, inc.), Steve Blanc PG&E | |
| Revision 3 | | 6/18/2012  8/22/2012 | Updated NTG, EUL and savings analysis to include field monitoring and natural gas savings, combined F150 & F151  Updated BLD, CZ and VIN to ANY per READI requirements | | Rich Swierczyna, Angelo Karas, Don Fisher (Fisher-Nickel, inc.), Charlene Spoor, PG&E  Charlene Spoor (PG&E) | |
| Revision 4 | | 5/31/2014 | SCE updated statewide WP | | Charlene Spoor (PG&E) | |