Short Form Work Paper WPSDGENRWH0010

**Revision 2**

**San Diego Gas & Electric**

**Energy Efficiency Engineering**

**Deemed Program for Commercial Steam Traps**

**October 19, 2016**

# Commercial Steam Trap Replacement Short Form WP

## Introduction

This short form workpaper (WP) documents the values adopted from SCG’s workpaper entitled “Deemed Program for Commercial Stream Traps” (SCGWP100310A Rev 9). SDG&E adopts all of the values in SCGWP100310A Rev 9 with the following exceptions:

1. SDG&E only offers this measure as Replace on Burnout (ROB) installation type;
2. SDG&E intends to use the Com-Default>2yrs Net-to-Gross (NTG) ID only;
3. SDG&E intends to use the “Downstream Prescriptive Rebate” delivery type;
4. SDG&E intends to use the Commercial (Com) building type only; and
5. SDG&E intends to use the SDGE35-OTI-Otherindustrial-PROC OTH E3 load shape.

## Document Revision History

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| --- | --- | --- | --- |
| **Rev** | **Date** | **Author** | **Summary of Changes** |
| 0 | 06/15/2012 | Kelvin Valenzuela/ SDG&E | Adopted from SCGWP100310A\_Rev9\_Commerical Steam Traps.docx dated August 12, 2011. Revised NTGR to 2011 DEER. |
| **1** | 06/13/2014 | Judelson Enriquez / RMS Energy Consulting, LLC | 1. Updated to new workpaper format.  2. Added measure tables in Section 1, 2014 EUL ID and table, TOU section, GSIA language and ID table, and load shape table.  3. Generated calculation spreadsheet based on IOU statewide Calculation Template output. |
| **2** | 10/19/2016 | Eduardo Reynoso | Adopted Short Form Workpaper based on referencing IOU lead workpaper by SCG, SCGWP100310A\_Rev9\_Commerical Steam Traps.docx |

Table : Measure Summary Table

|  |  |
| --- | --- |
| **Section** | **Value** |
| **1.1 Measure & Baseline Data** | Steam Trap replacement of failed traps in commercial buildings operating 12-24 hr/day. (Excludes Dry Cleaners, New Construction, Agriculture and Industrial customer building types). |
| **1.2 Technical Description** | A new steam trap includes any type of steam trap (thermostatic, mechanical, thermodynamic, or fixed orifice). This may include an entire steam trap or just the replacement of a steam trap “capsule” (the inner parts of a steam trap that is specifically designed to be replaced upon failure). The latter does not include existing standard steam traps that are modified, repaired, or are refurbished. |
| Measure 1 | A new Steam Trap that replaces a failed trap in commercial buildings which operate system 12-24 hours/day. |
| Code for Measure | There is no code or other jurisdictional requirements related to these measures. |
| Requirements | Must be a commercial facility that operates 12 hours or more.  • New Construction, Dry Cleaners, Agricultural and Industrial building types (and or customers) are not eligible  • Steam traps must replace one-to-one an existing failed or older steam traps that have been in service fora minimum of five years  • For each steam trap being replaced must provide steam trap manufacturer, model number, specification sheet, paid purchase receipt with tax and proof of shipping  • Must provide operating pressure of steam system, and construction style (mechanical, thermostatic, or thermodynamic)  • May be asked to verify the location of the replaced steam trap(s) in steam loop |
| **1.3 Installation Type and Delivery Mechanisms** |  |
| Installation Type | Replace On Burnout (ROB) |
| Delivery Mechanisms | Financial Support – Downstream Prescriptive Rebate -“PreRebDown” |
| **1.4.1 DEER Data** |  |
| DEER Measure ID | DEER does not contain this type of measure. |
| Net-to-Gross Ratio | Com-Default>2yrs |
| Effective and Remaining Useful Life | PrcHt-StmTrp (EUL= 6yrs; RUL = 2yrs) |
| **Section 2. Calculation Methodology** | Not Scaled and or Climate Zone dependent |
| **Section 3. Load Shapes** | SDGE:35-OTI-Otherindustrial-PROC OTH |
| **Section 4. Costs** |  |
| Base Cost – Measure 1 | $0 |
| Measure Cost – Measure 1 | $233.00 |
| Incremental Cost – Measure 1 | $233.00 ($77.78 for materials + average DI contract labor) |