**Workpaper Submission**

**Cover Sheet**

**Purpose:** The information in this coversheet will be used by the Deemed Review Team to identify incoming workpapers using consistent information applicable to track key information needed for the workpaper review.

**INSTRUCTION:** This cover sheet should be completed by Program Administrators upon submitting a workpaper. Additional instructions are provided below.

**Program Administrator (PA) Information**

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| --- | --- | --- | --- |
| **Parameter** | **Description** | **PA Entry** | |
| **PA** | Please check one. | SCE   PG&E | SCG  SDG&E |
| **PA Lead based on Use Category** | Please check one. | SCE  SCG  PG&E  SDG&E | |
| **Contact info** | Please provide the name and email address of submitter. | Jesse Manao, jesse.c.manao@sce.com | |

**Workpaper Information**

| **Parameter** | **Description** | **PA Entry** |
| --- | --- | --- |
| **Date of Workpaper Submission** | This entry should be date of upload to WPA (MM/DD/YYYY). Actual submission date will be noted as the subsequent first or third Monday of the month. | 12/31/2020  Resubmission: 05/19/2021  Resubmission with RACC addendum |
| **Workpaper Title** | This entry should match the title on the workpaper. | Heat Pump Water Heater, Commercial |
| **Source Description** | This entry should match the source description for the workpaper.  (e.g., SWHC099-01) | SWWH031-01 |
| **Workpaper Phase** | Please provide the phase and year for the workpaper.  (e.g., 2020 P2 Workpaper Revision) | |  | | --- | | Effective Year: 2021 | | Phase 1  Phase 2  New workpaper  (new product or technology, new delivery type)  Workpaper revision  (new tiers, new costs, change in measure parameters such as EUL or NTG, measures added to workpaper)  Workpaper adoption (IOU adoption with new Implementations, no change to Measures, Cost and EE Impacts) |   Notes: This is a new electric-to-electric water heater measure for commercial applications. |
| **Rationale for Workpaper Revision** | Please check all boxes that apply and include a brief description explaining why the workpaper is being revised. | Not a revision but a new WP  Code  DEER  Disposition  CPUC Resolution  Baseline Update  Cost Update  Industry Standard Practice Study  Other: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  WP Resubmission of Existing Revision (minor edits/corrections/new implementations)  Notes: |
| **Measure Impact Type**  **(DEER / CEDARS)** | Please check boxes that apply and include a brief description explaining measures types if using Custom. | Cust-FuelSub  Cust-Gen  Cust-NMEC  Cust-RCT  Cust-SEM  Deemed-DEER  Deemed-WP  Deemed-DEER-FuelSub  Deemed-WP-FuelSub  Notes: |
| **Effective Date** | Please provide the proposed earliest date of any claims to be made against this workpaper if it is approved. If this is a Phase 2 workpaper, please account for the submittal date as the first or third Monday of the month. Please add 90 days, where applicable.[[1]](#footnote-1) | Start Date: 1/25/2021  Notes: |
| **Total expected statewide net lifetime savings from workpaper measures in the year indicated.** | This value is expressed in kWh and therms for electric and gas, respectively. | Year: 2022  Electric: 170,080,200 (kWh)  Gas: 0 (therms)  Check which PAs are included in this estimate of savings:  SCE  PG&E   SCG  SDG&E  Notes: 9448.9 kwh (COM average per unit) \* 2000 units (from CalTF submission) \* 0.6 (NTG) \* 15 (EUL) = 170,080,200 kWh |
| **Change in net lifetime portfolio savings due to workpaper revision in the year indicated.** | This value is expressed in kWh or therms for electric and gas, respectively. Note a + indicates portfolio savings are expected to increase and a – indicates portfolio savings are expected to decrease. | Year: NA  Gas: +/– (therms)  Electric: +/– (kWh)  Describe the sources of the change: |
| **Stakeholder Communications** | Describe which stakeholders were notified and what was the outcome of the correspondence. For some workpapers this may not be applicable. Please include additional sheets if necessary.  (E.g., Manufacturer for SCT submitted comments on workpaper, see attached) | 3P Implementer  Distributor(s)  Manufacture(s)  IOU Internal Stakeholders (Policy/Program Operations/Senior Leadership/Business Operation)  External Stakeholders (consultants, engineering SME, etc.)  Notes: This workpaper was developed by a 3P implementation contractor and their team of consultants under the supervision and coordination with SCE. |
| **CalTF Development** | During development of this workpaper were there any specific flagged issues from CalTF pertaining to technical methodology or approach? | Yes  No  If Yes, then select issues types:  Savings model approach and or assumptions require updating (baseline, ISP, non-DEER building protypes, data files, extrapolation, weather data, etc.)  Measured savings calculations approach and or assumptions require updating (M&V plan, NMEC, Non-Routine Events (NRE), independent 3P validation)  Sample size may not representative of all climate zones, building types, HVAC, etc.  Issue with Savings Calculations (Interactive Effects, HOU, Code, Baseline, ISP, proprietary NDA, etc.)  Notes: As noted in the SWWH031 WPP, the DEER Hot Water Calculator version 4.2 may not accurately represent one-to-one replacement scenarios. Should the CPUC update the method or savings in the DEER Hot Water Calculator to reflect one-to-one replacements more accurately, the workpaper will be revised accordingly. |
| **Potential Market Impacts or Controversies** | Describe any responses to the stakeholder communications and any other sources of stakeholder or PA implementation concern with this workpaper revision regarding negative market impacts or controversies. | Yes  No  If Yes, then please check appropriate boxes:  3 Party Direct Install (DI) inventory  Existing contractual commitments  Lead time procurement issues  Market Disruption (ramp down/re-start)  Delivery channel changes (UpDeemed/DnDeemed/DnDeemDI)  PA Program ramp down (no longer cost effective)  Other (please detail)  Notes: This workpaper uses the same values and methodology presented in approved workpapers:SWWH014 and SWWH027. |
| **Associated Dispositions** | Is there a disposition associated with this workpaper?  If yes, please include the file name. (e.g., SWFS007-02\_HotHoldCab\_02\_19\_2020.pdf) | Yes  No  Notes: |
| **Additional Notes** |  | **Refrigerant Avoided Cost**  This submission complies with Resolution E-5152’s requirement for an addendum for the reporting of refrigerant avoided cost for measure packages where retrofits involving adding or replacing equipment refrigerant.  This submission includes reporting of refrigerant leakage avoided costs based on CPUC’s refrigerant avoided cost calculator (RACC), version 1b.  Supporting documentation includes the RACC calculator in spreadsheet format with cover sheet explaining specific adjustments to the CPUC calculator for deemed measures (without deviating from CPUC’s calculation methodology) and research supporting the user specified inputs in the calculator. The tool outputs the unit refrigerant costs and unit refrigerant benefits to be used for CET reporting.  Additionally, an “Addendum to Report Refrigerant Leakage Avoided Cost” word document is included as part of the submission package explaining the overall compliance process and high-level assumptions coordinated and agreed with Commission for the December 01, 2021 submissions. |

**Cover Sheet Revision History**

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| **Revision Number** | **Revision Date** | **Implementation Start Date** | **Author** | **Summary of Changes** |
| 0 | 3/15/2019 | 3/18/2019 | Kerri-Ann Richard, Deemed Review Team | Original Cover Sheet |
| 1 | 4/17/2019 | 4/22/2019 | Kerri-Ann Richard, Deemed Review Team | Addition of Consult with Stakeholders entry |
| 2 | 05/18/2020 | 05/18/2020 | Kerri-Ann Richard, Deemed Review Team | Updated All Entries |

1. 90-day does not apply to new workpapers or new measures added to workpapers. [↑](#footnote-ref-1)