Ex Ante PA Workpaper Submission Cover Sheet

Title: PA Workpaper Submission Cover Sheet

Purpose: The information in this coversheet will be used by the EAR Team to identify incoming workpapers using consistent information applicable to track the workpaper review schedule and level of rigor.

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

REVISION NUMBER: 1

REVISION DATE: 4/17/2019, to be used starting 4/22/2019

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| **Program Administrator (PA) Information** | | |
| **Parameter** | **Description** | **PA Entry** |
| PA | Please check one. For statewide workpapers submitted by either SCE for electric measures or SCG for gas measures, please also check SW. | SW  SCE  PG&E  SCG  SDG&E |
| Contact info | Please provide name and email address of submitter | Ed Reynoso  [EReynoso@semprautilities.com](mailto:EReynoso@semprautilities.com) |

| **Workpaper Information** | | |
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| **Parameter** | **Description** | **PA Entry** |
| Workpaper Title | This entry should match the title on the workpaper. | LED High-Bay and Low-Bay Fixtures |
| Workpaper ID | This entry should match the workpaper ID on the workpaper. | WPSDGENRLG0080 |
| Revision Number | This entry should match the revision number on the workpaper. Whole numbers only. | Revision 5 |
| Source Description | This entry should match the source description for the workpaper. | WPSDGENRLG0080-5 |
| Phase and Effective Year | Please provide the Phase and effective year for the workpaper. | |  |  | | --- | --- | | Year: 2019 | Phase 1  Phase 2 |   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 1st or 3rd Monday of the month. | |  |  | | --- | --- | | Start Date | 8/1/2019 |   Notes: Date aligns with CPUC Energy Division Lighting Disposition issued on May 13, 2019 with file name “PG&ECOLTG178 Rev4 High Low Bay LED Memo\_\_2019-05-13.pdf”. |
| Expiry Date | Please provide the proposed last date of any claims to be made against this workpaper if it is approved. If this is unknown, please provide additional notes. | |  |  | | --- | --- | | Expiry Date | 12/31/2019 |   Notes: Date aligns with CPUC Energy Division Lighting Disposition issued on May 13, 2019 with file name “PG&ECOLTG178 Rev4 High Low Bay LED Memo\_\_2019-05-13.pdf”. |
| % savings of total PA net lifetime portfolio as reported in the most recent ABAL | This value is expressed as a % for both electric and gas. | |  |  | | --- | --- | | ABAL Year  2019 | Gas: 0.0%  Electric: 0.0% |   Notes: Not included in 2019 ABAL |
| % change to savings of total PA net lifetime portfolio due to workpaper revision | This value is expressed as a % for both electric and gas. | |  |  | | --- | --- | | ABAL Year: 2019 | Gas: 0.0%  Electric: 0.0% |   Notes:  The workpaper measures energy savings impacts increased by 14% in migrating to lumen bin, in addition to adding LED TLED as the baseline. However, SDG&E did not include the workpaper measures in the 2019 ABAL due to the time between DEER Resolution E-4952 and the CPUC staff disposition for LED High/Low Bay Fixtures, dated 5/13/2019. |
| Associated workpapers or from DEER | Is this an adopted or short form workpaper from another PA or from DEER?  If Yes, please identify which workpapers are associated, including workpaper revision number and PA this is adopted from | Yes  No  Notes: This short form workpaper documents the values adopted from PG&E workpaper PG&ECOLTG178 Revision 4 as follows:  1. Updated Measure Application Type per CPUC Resolution E-4952/E-4818.  2. Updated measures definitions to align with PG&E’s latest workpaper revision (PG&ECOLTG1178 Revision 4), for adding TLED lamps in the baseline savings and cost.  3. Removed legacy “sunset” measures and ex-ante data records, to align with CPUC lighting disposition (dated May 13, 2019) and Resolution E-4952.  4. Adopted and created new measure definitions based on lumen bins per fixture structure, to align with PG&E’s latest workpaper revision.  5. SDG&E to sunset all legacy ex-ante data by 7/31/2019, associated with previous workpaper revision.  6. SDG&E workpaper (WPSDGENRLG0080 Revision 5) and ex-ante data, for given submission, has an effective start date of 8/1/2019 and expiry date of 12/31/2019.  7. Adopted PG&E’s delta watts calculations methodology for LED High/Low Bay lighting fixtures, as stated in CPUC Staff disposition dated May 13, 2019 for PG&ECOLTG178 Rev4. A total of 3,888 new Impact records have been generated using DEER/PEAR lighting support tables for 2016 Commercial Lighting “Com-Indoor-HB” interactive effects tables.  8. Adopted PG&E measure and standard cost values and created new SDG&E Measure and Standard Cost IDs.  9. SDG&E created new Implementations IDs:  467563-467586 ( UpDeemed)  467587-467610 (DnDeemed)  467611-467634 (DnDeemDI) |
| Associated dispositions | Is there a disposition associated with this workpaper?  If Yes, please include the file name (eg. SCE17WP001R1\_Pool Pump\_2019-01-28.pdf) | Yes  No  Notes: CPUC Energy Division Lighting Disposition issued on May 13, 2019 with file name “PG&ECOLTG178 Rev4 High Low Bay LED Memo\_\_2019-05-13.pdf” |
| Why is the WP being revised? | Please check all boxes that apply and include a brief description as to why the workpaper is being revised (Eg., Code or standard change, DEER resolution, Change to statewide workpaper, Designated high uncertainty measure by CPUC that required new studies, New impact evaluations that changed values, Other) | Code  DEER  Disposition  CPUC Resolution  Baseline Update  Other: New Workpaper adoption  Cost Update  Industry Standard Practice Study  Notes: As noted per PG&E revision history for revision 4 below.  -Updated cost required by Resolution E-4952 and DEER 2019. Included tubular LED lamps (TLEDs) in the base case cost and savings calculations.  -Converted wattage bin measure structure to lumen bin measure structure.  -New Measure codes LT514 – LT537. Removed New Construction MAT.  -Measure will be effective 4/1/2019.  -Revised TLED lamp efficacy to 111 lm/W, results in TLED fixture efficacy of 85.2 lm/W.  -Revised TLED cost from $0.0042/lm to $0.0036/lm. |
| Consult with stakeholders | Utilities must demonstrate how they have consulted with stakeholders in their workpaper submissions, this could include vendors, third party implementers, manufacturers, CalTF, etc. | Notes:   1. PG&E used multiple studies to develop the workpaper. 2. PG&E, Section 1.5 EM&V, Market Potential, and Other Studies – Base Case and Measure Case Information 3. Section 1.5.2 California LED Pricing Analysis 4. Section 1.5.3 LED Workpaper Update Study 5. Section 1.5.4 LED Non-Residential Lighting Market Characterization 6. Section 1.5.5 TLED Baseline 7. Section 1.5.6 CALiPER Snapshot Report June 17, 2016 8. Section 1.5.7 CALiPER Summary Report October 2011 9. SDG&E provided delta watts comparison between proposed PG&E energy savings measures and DEER measures savings. 10. SDG&E has an internal governance for adopting new workpapers that considers market uptake, cost effectiveness, and third-party implementation. |
| Additional notes: |  | The SDG&E workpaper submission includes the following support documents   1. EAD tables are submitted with the file name “EAD\_LED High-Low Bay\_2019-06-06.mdb”. 2. Calculation file used to savings impacts “WPSDGENRLG0080\_Rev5\_High-Low Bay LED\_calculations\_20190530.xls” |

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| **Revision History** | | | | |
| **Revision Number** | **Revision Date** | **Implementation Start Date** | **Author** | **Summary of Changes** |
| 0 | 3/15/2019 | 3/18/2019 | Kerri-Ann Richard, EAR Team | Original Cover Sheet |
| 1 | 4/17/2019 | 4/22/2019 | Kerri-Ann Richard, EAR Team | Addition of Consult with Stakeholders entry |