Response to CPUC Comments on SWCR010-02 Bare Suction Pipe Insulation

Lead PA: SCE

Workpaper Submittal Date: 11/06/2020

CPUC Review Date: 11/18/2020

SCE Response Date: 3/16/2021

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| CPUC Comment | PA Response |
| Formatting errors in the equations throughout the work paper. Please revise. | We have converted all equations from image format to Microsoft Word Equation format.  CPUC Comment 02/23: The equations in the work paper are still very difficult to read. Please revise.  PA Response 3/5: All equations and figures have been reformatted to be more legible. |
| The equation of capacity factor in page 19 of the work paper is 1-PLR, where PLR is 0.87. The “Measure Specific Constants” sheet (cell B56) uses capacity factor equation of 1- 0.13 for medium temperature coolers. Shouldn’t the equation be 1-0.87 instead? | For this update of the workpaper, SCE did not change the methodology from the previously approved workpaper; however, it does appear that the workpaper methodology section should be updated to reflect the duty cycle calculation method in the “Measure Specific Constants” sheet. Namely, the capacity factor should be equal to 1 minus the oversize factor (0.13), or 0.87. This change has been made and is reflected throughout the workpaper and aligns with the calculations presented in the “Measure Specific Constants” sheet. |
| The average annual wind speed of 7.5 mph is used for all climate zones.  Per the CZ07 weather data, the average windspeed is 3.27 mph which is half of what the work paper assumes. Halving the wind speed would mean that the convection loss coefficient and hence, the measure savings would decrease by 30% or so, which is significant. The WP should use actual average windspeed values instead of assuming 7.5 mph for all climate zones. | Calculations and work paper methodology narrative have been updated to reflect CZ specific average annual wind speeds based on DEER 2022 Weather files. |
| Eligible building types page 4 in the WP mentions commercial building types only. Industrial and Agriculture types should also be added. | Added Industrial and Agriculture to workpaper narrative. |
| The following energyimpact ID does not exist in Pear. Please confirm this is the correct ID for use in this workpaper. DEER:HVAC\_Chillers | Based on previous feedback received, a DEER electric load shape (ElecImpactProfile) must be selected. There are currently no commercial refrigeration load shapes. Therefore, the DEER:HVAC\_Chillers load shape was selected, as it is most representative load shape. |
| Does the eQuest model assume insulated suction lines? | The 2020 eQuest grocery store prototype models were reviewed and do not assume insulated suction lines. |

Please note responses to comments in the table below, revise workpaper, and upload the entire package to the WPA. If needed, please reach out to Workpaper Review Team to set up a call to discuss.