

DOCKETED

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**CALIFORNIA ENERGY COMMISSION**

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Staff Supplement to CASE Report #2019-RES-DHW1-F

Date: 2017-10-20

Pages: 2

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Subject: Compact Hot Water Distribution - 2019-RES-DHW1-F

DESCRIPTION OF PROPOSED REGULATORY CHANGES

CASE report #2019-RES-DHW1-F titled Compact Hot Water Distribution, proposes to make the following changes to the Standards:

- The CASE proposal recommends modification to the existing Compact Hot Water Distribution compliance credit. The changes will create a Basic Credit for Compact Hot Water Distribution and an Expanded Credit which requires verification by a HERS rater. The proposed changes impact single family buildings only.
- The CASE proposal recommends modifications in Residential Reference Appendices RA3.6.5 and RA4.4.16 to specify the eligibility requirements for the Compact Hot Water Distribution Basic Credit and Expanded Credit.
- The CASE proposal recommends the addition of a new term Compactness Factor (CF) in the Residential ACM Reference Manual Appendix B-Water Heating Calculation Method. CF modifies the existing equation for Distribution System Multiplier which accounts for distribution losses of hot water systems.

Staff agrees with the recommended changes to RA3.6.5, RA4.4.16 and Residential ACM Reference Manual and has incorporated substantively similar changes into the proposed Express Terms.

STAFF ANALYSIS AND CONCLUSION

Staff has analyzed the submitted CASE report and reached the following conclusions for the measures included in the Express Terms:

- Based on the evidence presented in the CASE Report, the measures, as proposed, have appropriately followed the Energy Commission's Life Cycle Cost methodology.
- Measure costs premiums presented in the CASE Report are reasonable and appropriate for the measure proposed.

- Measure energy savings presented in the CASE Report appear to have been appropriately modeled and are credible.