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***Staff Supplement to California Statewide Codes and Standards
Enhancement (CASE) Team Measure Proposal Swimming Pool and Spa
Heating***

Date: March 28, 2024

Pages: 2

Author: Danny Tam

Description of Proposed Regulatory Changes

The measure change proposal submitted by CASE team and titled “Swimming Pool and Spa Heating” proposes to make the following changes to the Standards:

- New mandatory requirement for solar thermal pool and spa (except portable electric spas) heating systems, heat pump pool heater with certain COP, sizing and controls criteria, or on-site renewable energy or site recovered energy in nonresidential, multifamily, and newly constructed single-family buildings with heated swimming pools and spas.
- Cleanup of section 150.0(p) to harmonize Title 24, Part 6, with provisions in the federal regulations on dedicated-purpose pool pumps.
- Create a new Joint Reference Appendix JA15 – Criteria for Solar Swimming Pool or Spa Heating System, Heat Pump Pool Heaters, and On-Site Renewable Energy or Site Recovered Energy

Staff agrees with the proposed changes to Sections 110.4, 150.0 (p), and JA15 and have incorporated substantively similar changes into the proposed Express Terms. JA15 has been renumbered to JA16 due to new proposed JA15 from the CASE proposal Multifamily Domestic Hot Water.

After consideration of public comments (22-BSTD-01 TN253203 and TN253999) regarding the need for additional exceptions, staff agrees with the comments and have modified exception 2 to Section 110.4(c) to expand the exception to include multifamily and nonresidential pool and/or spa heating system. Staff recommends moving the mandatory nonresidential and multifamily pool heating requirement to CalGreen as a voluntary standard. Additionally, staff added 2 new exceptions for system used exclusively for permanent spa, to allow gas system to be used if there is gas service available or if there is inadequate solar access for a solar spa heating system.

Staff Analysis and Conclusion

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

- Based on the evidence presented in the proposal, the measures, as proposed, is cost effective and the author has appropriately followed the Energy Commission's Life Cycle Cost methodology.
- Measure costs premiums presented in the proposal are reasonable and appropriate for the measure proposed.
- Measure energy savings presented in the proposal are appropriately modeled and appear credible.
- Measure environmental impacts presented in the proposal are reasonable and appropriate for the measure proposed.