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***Staff Supplement to California Statewide Codes and Standards
Enhancement (CASE) Team Measure Proposal Nonresidential HVAC
Controls***

Date: March 28, 2024

Pages: 2

Author: Bach Tsan

Description of Proposed Regulatory Changes

The measure change proposal submitted by California Statewide Codes and Standards Enhancement (CASE) team and titled “Nonresidential HVAC Space Heating” proposes to make the following changes to the Standards:

1. Nonresidential HVAC Controls

- Add prescriptive requirements for the use of control sequences from ASHRAE Guideline 36 in new heating, ventilation, and air conditioning (HVAC) systems.
- Add prescriptive requirement that controls programming for Direct Digital Control (DDC) systems using control logic based on certification requirements in the new joint appendix.
 - Staff agrees with the proposed changes to the definitions and Section 140.4(a) through (r) and Joint Appendix JA18 and have incorporated substantially similar language into the express terms.

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 hot water supply temperature and mechanical heat recovery measures, as proposed, are 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.
- Measured energy savings presented in the proposal are appropriately modeled and are credible.
- Measure environmental impacts presented in the proposal are reasonable and appropriate for the measure proposed.