

# Proposal Summary



## 2022 California Energy Code (Title 24, Part 6)

### Multifamily Indoor Air Quality - Central Ventilation Shaft Sealing

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#### Introduction

The document summarizes proposed revisions to the California Energy Code (Title 24, Part 6) that will be discussed during a utility-sponsored stakeholder meeting on August 22, 2019. The Statewide Utility Codes and Standards Enhancement (CASE) Team is seeking input and feedback. To provide your comments, email [info@title24stakeholders.com](mailto:info@title24stakeholders.com) by September 5, 2019.

#### Measure Description

Require that central ventilation shafts in new construction multifamily buildings be sealed within a maximum leakage rate and tested for compliance.

#### Draft Code Language

The Energy Commission plans to create a multifamily chapter for inclusion in 2022 Title 24, Part 6. The multifamily chapter will draw from the appropriate sections of the 2019 residential and nonresidential Standards. The Statewide CASE Team uses the language and section numbering from residential and nonresidential Standards and Reference Appendices to show the proposed changes below. Changes to the 2019 documents are marked with red underlining (new language) and ~~strikethroughs~~ (deletions). Expected sections or tables of the proposed code (but not specific changes at this time) are highlighted in **yellow**.

#### 100.1 Definitions and Rules of Construction

ASHRAE Standard 215 is the Air-Conditioning, Heating, and Refrigeration Institute document titled *Method of Test to Determine Leakage of Operating HVAC Air-Distribution Systems, 2018* (ASHRAE Standard 215-2018)

#### Section 120.1 Requirements for Ventilation and Indoor Air Quality

**120.1(b)2Av.** Multifamily building central ventilation systems that serve multiple dwelling-units shall be balanced to provide ventilation airflow to each dwelling-unit served at a rate equal to or greater than the rate specified by Equation 120.1-B, but not more than twenty percent greater than the specified rate. These systems shall utilize balancing means to ensure the dwelling unit airflows can be adjusted to meet this balancing requirement. These system balancing means may include but not be limited to constant air regulation devices, orifice plates, and variable speed central fans. Multifamily building central ventilation systems shall meet the following requirement: The maximum air leakage rate of each



ventilation shaft in a multifamily building shall be confirmed through field verification and diagnostic testing in accordance with applicable procedures specified in Reference Nonresidential Appendix NA1.6.XX to no more than 5 percent of the total rooftop fan flowrate.

### **Reference Appendices**

The Statewide CASE Team will propose language to Title 24, Part 6 Nonresidential Reference Appendix NA1.6.XX for conducting the central ventilation sealing test based on ASHRAE Standard 215, *Method of Test to Determine Leakage of Operating HVAC Air-Distribution Systems*.