APPROVED BY THE CALIFORNIA BUILDING STANDARDS COMMISSION JUNE 27, 2023

# COMMISSION ACTION MATRIXBUILDING FIRE AND OTHER – STRUCTURAL DESIGN/LATERAL FORCES AD-HOC (BFO/SDLF) CODE ADVISORY COMMITTEE

## 2022 California fire code, TITLE 24, PART 9 AGENCY: Office of the state fire Marshal, sfm 07/22

### LEGEND:

**CAC Actions:** Approve, Disapprove, Approve as Amended, Further Study Required

**Agency Responses:** Accept, Disagree, Withdraw

**CBSC Actions:** Approve, Disapprove, Approve as Amended, Further Study Required

**Matrix Paper Color** (for commission action only): GREEN = uncontested items, YELLOW = challenged items, SALMON = withdrawn, no action required

If using assistive technology, please adjust your settings to recognize underline, strikeout, italic and ellipsis.

* Model Code language appears upright
* Existing California amendments appear in *italic*
* Amended model code or new California amendments appear *underlined & italic*
* Repealed model code language appears ~~upright and in strikeout~~
* Repealed California amendments appear in *~~italic and strikeout~~*
* Ellipses ( ...) indicate existing text remains unchanged

### Chapter 1 SCOPE AND ADMINISTRATION, Division I, California Administration

Amend Section 1.11.1 SFM-Office of the State Fire Marshal.

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| **Item Number 1** | **Code Section** | **CACAction** | **Agency Response** | **Public Comments** | **Annotations** | **CBSCAction** |
| SFM 07/22-1-1 | ***Specified state-occupied buildings.*** | **Approve** | **Accept** | No public comments received. | Amend the definition of Specified State-Occupied buildings to remove exception and the reference to the University of California (UC). | **Approved** |

### Chapter 2 DEFINITIONS, Section 202 GENERAL DEFINITIONS

SFM proposes to amend definitions listed below.

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| **Item Number 2** | **Code Section** | **CACAction** | **Agency Response** | **Public Comments** | **Annotations** | **CBSCAction** |
| SFM 07/22-2-1 | **CARE SUITE** | **Approve** | **Accept** | No public comments received. | Delete reference to I-2.1 occupancy | **Approved** |
| SFM 07/22-2-2 | **FLAMMABLE GAS** | **Approve** | **Accept** | No public comments received. | Amend defined term for flammable gas to include Category 1A and 1B. | **Approved** |
| SFM 07/22-2-3 | **Group B, Business.** | **Approve** | **Accept** | No public comments received. | Delete reference to I-2.1 occupancy. | **Approved** |
| SFM 07/22-2-4 | **High-Hazard Group H-2.****High-Hazard Group H-3.** | **Approve** | **Accept** | No public comments received. | Proposal to amend regulations regarding H2 and H3 occupancies for Flammable Gases and Categories 1A and 1B.**Code Advisory Committee (CAC):** Editorial comment about capitalization of the term “flammable gases”. | **Approved** |
| SFM 07/22-2-5 | **Group I, Institutional.*****~~Institutional Group I.2.1~~*** | **Approve** | **Accept** | No public comments received. | Delete reference to I-2.1 occupancy. | **Approved** |
| SFM 07/22-2-6 | ***NON-PATIENT-CARE SUITE*** | **Approve** | **Accept** | No public comments received. | Delete reference to I-2.1 occupancy. | **Approved** |
| SFM 07/22-2-7 | ***PROXIMATE AUDIENCE*** | **Approve** | **Accept** | No public comments received. | Delete reference to NFPA 1123, as it is not adopted by the State Fire Marshal. | **Approved** |
| SFM 07/22-2-8 | **Lodging houses.** | **Approve** | **Accept** | No public comments received. | Correct reference from Section P2904 to R313 of the California Residential code (CRC). | **Approved** |

### Chapter 4 EMERGENCY PLANNING AND PREPAREDNESS

Amend sections listed below.

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| **Item Number 3** | **Code Section** | **CACAction** | **Agency Response** | **Public Comments** | **Annotations** | **CBSCAction** |
| SFM 07/22-3-1 | **405.2, 405.5** | **Approve** | **Accept** | No public comments received. | Delete the reference to I-1 and replace with R-2.1. | **Approved** |

### Chapter 5 FIRE SERVICE FEATURES

Amend sections listed below.

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| **Item Number 4** | **Code Section** | **CACAction** | **Agency Response** | **Public Comments** | **Annotations** | **CBSCAction** |
| SFM 07/22-4-1 | **510.4.2, 510.5** | **Approve** | **Accept** | No public comments received. | Replace the discontinued publication of NFPA 1221 with the newest publication for Emergency Radio Response Communication Systems NFPA 1225-22 edition. | **Approved** |

### Chapter 6 BUILDING AND SAFETY SERVICES

Amend sections listed below.

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| **Item Number 5** | **Code Section** | **CACAction** | **Agency Response** | **Public Comments** | **Annotations** | **CBSCAction** |
| SFM 07/22-5-1 | **605.4 Fuel oil storage systems.** | **Further Study** | **Accept** | No public comments received. | Amendment to identify that the installation of fuel oil storage and piping systems connected to combustion engines and gas turbines are included within the scope of Section 605.4.**CAC: FS under Criteria #6.** Recommended SFM and OSHPD to clarify the intent and check if there is a conflict in the proposed amendments . | **Approved** |
| SFM 07/22-5-2 | **605.4.1 Fuel oil storage in outside, above-ground tanks.** | **Approve** | **Accept** | No public comments received. | Amendment to provide direction to the appropriate requirements for the installation of above-ground tanks connected to building heating systems or combustion engines and gas turbines. | **Approved** |
| SFM 07/22-5-3 | **605.4.2.3 Restricted use and connection** | **Approve** | **Accept** | No public comments received. | Amendment to provide direction to the appropriate requirements for the installation of above-ground tank fuel oil connections to building heating systems and generators or fire pumps. | **Approved** |
| SFM 07/22-5-4 | **605.4.2.5 Installation.** | **Approve** | **Accept** | No public comments received. | Amendment to identify the appropriate standards that regulate the installation of fuel oil storage and piping systems connected to building heating systems, combustion engines and gas turbines included within the scope of Section 605.4.2.5. | **Approved** |
| SFM 07/22-5-5 | **605.4.3 Underground storage of fuel oil.** | **Approve** | **Accept** | No public comments received. | Amendment to distinguish the requirements for underground tank fuel oil storage for building heating systems from the requirements that apply to combustion engines and gas turbines. | **Approved** |

**Chapter 8 INTERIOR FINISH, DECORATIVE MATERIALS AND FURNISHINGS**

Amend sections listed below.

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| **Item Number 6** | **Code Section** | **CACAction** | **Agency Response** | **Public Comments** | **Annotations** | **CBSCAction** |
| SFM 07/22-6-1 | **Table 803.3, Sections 804.3.3.2, 807.5.3, 807.5.3.3, 807.5.3.4** | **Approve** | **Accept** | No public comments received. | Delete references to Group I-2.1. | **Approved** |
| SFM 07/22-6-2 | **808.1 Wastebaskets and linen containers …** | **Approve** | **Accept** | No public comments received. | Delete the reference to I-1 and replace with R-2.1. | **Approved** |

**Chapter 9 FIRE PROTECTION AND LIFE SAFETY SYSTEMS**

Amend sections listed below.

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| **Item Number 7** | **Code Section** | **CACAction** | **Agency Response** | **Public Comments** | **Annotations** | **CBSCAction** |
| SFM 07/22-7-1 | **903.2.1.2, 903.2.1.3, 903.2.3, 903.2.7** | **Approve** | **Accept** | No public comments received. | Amendments to correct an error where the state amended language regarding fire-resistance ratings.**CAC:** Editorial correction in Section 903.2.1.2. to coordinate proper location of the word “of”. | **Approved** |
| SFM 07/22-7-2 | **903.2.8.3 Group R4, ~~Condition 2.~~** | **Approve** | **Accept** | No public comments received. | Correct an error where occurring regarding Occupancy Group R-4.  | **Approved** |
| SFM 07/22-7-3 | **903.3.2 Quick-response and residential sprinklers.** | **Approve** | **Accept** | No public comments received. | Delete language that is not needed for I-2 occupancies. | **Approved** |
| SFM 07/22-7-4 | **907.2.6.2, 907.2.9.3, 907.2.13, 907.5.1.1, 907.5.2.2, 907.5.2.3** | **Further Study** | **Accept** | 45-Day: S. Weiss-Ishai (SF Fire), Section 907.2.9.3Further Study, Criteria #6 | Delete references to Occupancy Group I-2.1.**CAC: FS under Criteria #6.** In Section 907.2.9.3, it is recommended to delete the Exception to #3 and clarify/clean up the language in the last paragraph. Associated with SFM 02/22 Part 2, Item 9-6.**45-Day:**  Commenter suggests revising the proposed amendment in section 907.2.9.3.**No changes to ET, see SFM response in FSOR.** | **Approved** |
| SFM 07/22-7-5 | **907.3.3, *907.3.3.1 Hoistway fire detection*.** | **Approve** | **Accept** | No public comments received. | Add a new subsection amendment to further clarify the need for detection to remain in the hoist way for the activation of recall.**CAC:** Correct Hoist way to read Hoistway. | **Approved** |
| SFM 07/22-7-6 | **907.5.2.3.1 Public use areas and common use areas.** | **Approve** | **Accept** | 45-Day: S. Weiss-Ishai (SF Fire)Further Study, Criteria #6 | Add more specific clarifying example where strobes shall be provided.**CAC:** Suggested to consider editorial clean up on capitalization of the term “Normally Occupied Rooms.”**45-Day:** Commenter suggests revising proposed amendment regarding # 13.**No changes to ET, see SFM response in FSOR.** | **Approved** |
| SFM 07/22-7-7 | ***907.5.2.5,* 909.5.3, 909.5.3.1** | **Approve** | **Accept** | No public comments received. | Delete references to Group I-2.1. | **Approved** |
| SFM 07/22-7-8 | **Table 911.1 Explosion Control Requirements** | **Approve** | **Accept** | No public comments received. | Amend this table to coordinate the requirements for flammable gas. | **Approved** |

**Chapter 10** **MEANS OF EGRESS**

Amend sections listed below.

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| **Item Number 8** | **Code Section** | **CACAction** | **Agency Response** | **Public Comments** | **Annotations** | **CBSCAction** |
| SFM 07/22-8-1 | **1003.2, 1003.3, 1003.3.1, *1003.3.3.1*, 1003.5, 1006.2.1, Table 1006.2.1, Table 1006.3.4(2), 1008.3.2, 1010.1.1, 1010.1.1.1, 1010.1.2, 1010.2.9, 1011.2, 1016.2, Table 1017.2, 1019.3, 1019.4, 1020.2, Table 1020.2, 1020.5, *1022.3,* 1026.4.1** | **Approve** | **Accept** | No public comments received. | Delete references to I-2.1 occupancies and amend to address different issues described in the ISOR. | **Approved** |
| SFM 07/22-8-2 | **1010.2.13.1 Delayed egress locking system.** | **Further Study** | **Accept** | No public comments received. | Delete model code language and add a pointer to the existing requirements for automatic sprinklers and fire detection in I-2 occupancies when delayed egress in installed.**CAC: FS under Criteria #6.** Recommended to revise the amendment to clarify the intent. CAC Action associated with SFM 02/22 Part 2, Item 10-3. | **Approved** |

**Chapter 11 CONSTRUCTION REEQUIREMENTS FOR EXISTING BUILDINGS**

Amend existing and add new sections as listed below.

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| **Item Number 9** | **Code Section** | **CACAction** | **Agency Response** | **Public Comments** | **Annotations** | **CBSCAction** |
| SFM 07/22-9-1 | **1103.9 Carbon monoxide detection.** | **Approve** | **Accept** | No public comments received. | Delete reference to I-1. | **Approved** |
| SFM 07/22-9-2 | **1103.7.3 Group I-2 *~~and Group I-2.1~~*~~.~~,*****1103.7.3.1*** | **Approve** | **Accept** | No public comments received. | Delete reference to I-2.1. | **Approved** |
| SFM 07/22-9-3 | ***1105.12 Group I-2 separations between construction areas.******1105.12.1 Minor work*** | **Approve** | **Accept** | No public comments received. | Add new amendments to address Group I-2 separation requirements between construction areas. | **Approved** |

**Chapter 12 ENERGY SYSTEMS**

Amend existing and add new sections as listed below.

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| **Item Number 10** | **Code Section** | **CACAction** | **Agency Response** | **Public Comments** | **Annotations** | **CBSCAction** |
| SFM 07/22-10-1 | ***1203.1.3.1 Combustion engines and gas turbines.***  | **Approve** | **Accept** | No public comments received. | New amendment to coordinate with CBC Section 442. | **Approved** |
| SFM 07/22-10-2 | **1207.11.4, *Table* *1207.11.4 MAXIMUM AGGREGATE RATINGS OF ESS*** | **Further Study** | **Accept** | 45-Day: J. Costello, , LA County Fire Department (LACoFD), Disapprove, Criteria #1, 3, 4 | Amendment to provide clarity for the maximum threshold of kWh of ESS for each location on a property.**CAC: FS under Criteria #6.** Recommended to revise Table 1207.11.4 footnotes (the last sentence in the footnote a) to clarify the intent of the amendment. Editorial suggestion to the same footnote is to reference California Fire Code instead of International Fire Code or to remove the reference to the code and keep section only. Suggested to modify Section 1207.11.4 amendment to remove “of the California Fire Code” from the amendment. Associated with SFM 03/22 Part 2.5, Item 9-2.**45-Day:** The proposed allowances for Energy Storage Systems (ESS) in Group R-3/R-4 occupancies are a conflict with the intent and consistency for these same ESS units when located in occupancies other than Group R-3/R-4. There is insufficient substantiation provided for a “need” to increase the maximum allowable aggregate kWh-ratings of ESS for Group R-3/R-4 occupancies. **No changes to ET, see SFM response in FSOR.** | **Approved** |

**Chapter 27 SEMICONDUCTOR FABRICATION FACILITIES**

Adopt International Fire Code Chapter 27.

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| **Item Number 11** | **Code Section** | **CACAction** | **Agency Response** | **Public Comments** | **Annotations** | **CBSCAction** |
| SFM 07/22-11-1 | **CHAPTER 27** | **Approve** | **Accept** | No public comments received. | Adopt Chapter 27. | **Approved** |

**Chapter 33 FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION**

Amend existing and add new sections as listed below.

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| **Item Number 12** | **Code Section** | **CACAction** | **Agency Response** | **Public Comments** | **Annotations** | **CBSCAction** |
| SFM 07/22-12-1 | ***3305.9.1 Group I-2 separations.*** | **Approve** | **Accept** | No public comments received. | New amendment to provide a reference to a new SFM proposed amendment containing requirements for construction separations in existing Group I-2 occupancies regardless of type of construction. | **Approved** |
| SFM 07/22-12-2 | **3307.2.1 Pipe cleaning and purging. *Exception #4.*** | **Approve** | **Accept** | No public comments received. | Add new Exception regarding cleaning and purging of refrigerant piping systems. | **Approved** |

**Chapter 49 REQUIREMENTS FOR WILDLAND-URBAN INTERFACE AREAS**

Amend existing and add new sections as listed below.

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| **Item Number 13** | **Code Section** | **CACAction** | **Agency Response** | **Public Comments** | **Annotations** | **CBSCAction** |
| SFM 07/22-13-1 | ***Chapter 49 Title, 4901.1, 4902, 4904.1, 4904.2, 4904.3, 4904.3.1, 4904.3.2, 4905.3*** | **Further Study** | **Accept** | No public comments received. | Correct the term Wildland-Urban Interface (WUI) used in the text to correlate with the definition of WUI. Update the reference to the State Fire Marshal as the agency responsible for designating Fire Severity Zones.**CAC: FS under Criteria #4, 6.** SFM to consider minor editorial corrections to certain references to High Severity Zones in the proposed amendments.  | **Approved** |
| SFM 07/22-13-2 | ***Section 4911*** ***MODEL ORDINANCE FOR FIRE HAZARD SEVERITY ZONE ADOPTION***  | **Further Study** | **Accept** | No public comments received. | Add model ordinance to Chapter 49 as a template for the establishment of documenting fire hazard severity zones as per direction of Government Code Section 51179. **CAC: FS under Criteria #4, 6.** The CAC recommendation is based on SFM request. Associated with SFM 02/22 Part 2, Item 7-4, and SFM 03/22 Part 2.5, Item 5-1. | **Approved** |

### Chapter 50 HAZARDOUS MATERIALS—GENERAL PROVISIONS

Amend existing and add new sections as listed below.

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| **Item Number 14** | **Code Section** | **CACAction** | **Agency Response** | **Public Comments** | **Annotations** | **CBSCAction** |
| SFM 07/22-14-1 | **5003.1.1 *Exception.*** | **Approve** | **Accept** | No public comments received. | Amendment to provide a compliance path between the California Fire Code and NFPA 99 regarding medical gases stored and used for patient care. | **Approved** |
| SFM 07/22-14-2 | **Table 5003.1.1 (1), Table 5003.1.1 (3), 5003.8.3.5, *5003.8.3.5.4 Flammable gas*, 5003.11, 5003.11.1, ~~5003.11.2~~,** **~~5003.11.3~~ *5003.11.1.1,*****~~5003.11.3.1~~ *5003.11.1.1.1,*****~~5003.11.3.2~~ *5003.11.1.1.2,*****~~5003.11.3.3~~ *5003.11.1.1.3,*****~~5003.11.3.4~~ *5003.11.1.1.4,*****~~5003.11.3.5~~ *5003.11.1.1.5,*****~~5003.11.3.6~~ *5003.11.1.1.6,*****~~5003.11.3.7~~ *5003.11.1.1.7,*****~~5003.11.3.8~~ *5003.11.1.1.8,*****~~5003.11.3.9~~ *5003.11.1.1.9,*****~~5003.11.3.10~~ *5003.11.1.1.10,*****~~5003.11.3.11~~ *5003.11.1.1.11,******5003.11.2, TABLE 5003.11.2, 5003.11.2.1*** | **Further Study** | **Accept** | No public comments received. | This proposal for amendments and renumbering in these sections coordinates with the change in the definition of flammable gas and to correlate with similar amendments and renumbering in SFM’s Part 2 proposal.**CAC: FS under Criteria #6.** Recommended to spell out “BV” as “Burning Velocity” in sections and footnotes as needed to identify the acronym. Replace “quantities area allowed” with “quantities are allowed” and check the statement about separation control areas not being required in Table 5003.11.2 Footnote c. These edits are associated with SFM 02/22 Part 2, Items 3-3 and 4-4. | **Approved** |

**Chapter 57 FLAMMABLE AND COMBUSTIBLE LIQUIDS**

Amend section listed below.

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| **Item Number 15** | **Code Section** | **CACAction** | **Agency Response** | **Public Comments** | **Annotations** | **CBSCAction** |
| SFM 07/22-15-1 | **5704.2 Tank storage.** | **Approve** | **Accept** | No public comments received. | Proposal for two Exceptions regarding compliance with Section 605.4 and Section 605.4.2. | **Approved** |

**Chapter 80 REFERENCED STANDARDS**

Adopt and amend referenced standards listed below.

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| **Item Number 16** | **Code Section** | **CACAction** | **Agency Response** | **Public Comments** | **Annotations** | **CBSCAction** |
| SFM 07/22-16-1 | **ASHRAE 15-~~2019~~ *2022*** | **Approve** | **Accept** | No public comments received. | Adopt the 2022 Edition of ASHRAE 15. | **Approved** |
| SFM 07/22-16-2 | **ASTM E108—~~17~~ *2020a*** | **Approve** | **Accept** | No public comments received. | Adopt the latest edition of ASTM E108. | **Approved** |
| SFM 07/22-16-3 | **IFGC—21: International Fuel Gas Code** | **Further Study** | **Withdraw** |  | Adopt the International Fuel Gas Code (IFGC).**CAC: FS under Criteria #6.** Recommended to consider adding amendments containing IFGC language where IFGC is referenced instead of adopting IFGC. Study if the adoption of IFGC creates conflict with the California Mechanical Code. Associated with SFM 02/22 Part 2, Item 13-3. | **No Action Taken** |
| SFM 07/22-16-4 | **NFPA 13—*22*** | **Approve** | **Accept** | No public comments received. | Corrections to NFPA 13-22 California amendments that were missed during the Triennial. | **Approved** |
| SFM 07/22-16-5 | **NFPA 24—~~19~~ 22****NFPA 409—~~16~~ *22*****NFPA 495—18****NFPA 1124—17****~~NFPA 1221—19~~*****NFPA 1225—22*** | **Approve** | **Accept** | No public comments received. | Adopt the 2022 edition of NFPA 24 and 409, Adopt NFPA 495, repeal the California amendment to NFPA 1124-17 edition, replace NFPA 1221 with the newest edition of 1225-22. | **Approved** |
| SFM 07/22-16-6 | **UL 790 *Edition 9* —~~2004~~ *2022*** | **Approve** | **Accept** | No public comments received. | SFM proposes to adopt the 9th edition of UL 790. | **Approved** |

**ERRATA**

Errata to the 2022 California Fire Code.

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| **Item Number 17** | **Code Section** | **CACAction** | **Agency Response** | **Public Comments** | **Annotations** | **CBSCAction** |
| SFM 02/22-17-1 | **805.2.1.2 Heat release rate.** **805.4.1.2 Heat release rate.** | **Approve** | **Accept** | No public comments received. | TB 133 has been repealed by California’s Bureau of Electronic and Appliance Repair, Home Furnishings and Thermal Insulation, effective January 22, 2019. | **Approved** |
| SFM 02/22-17-2 | **903.2.8.3 Group R-4~~, Condition 2~~.** | **Approve** | **Accept** |  | Group R-4 in California is not divided into condition 1 and 2. This is an existing amendment to delete the reference to the conditions from the model code.**Withdrawn post public comment period.** | **No Action Taken** |
| SFM 02/22-17-3 | **California Technical Bulletin ~~133—1991: Flammability Test Procedure for Seating Furniture for Use in Public Occupancies~~ *116: Requirements, test procedure and apparatus for testing of the flame retardance of upholstered furniture and 117: Requirements, Test Procedure and Apparatus for Testing the Smolder Resistance of Materials Used in Upholstered Furniture.*** | **Approve** | **Accept** | No public comments received. | TB 133 has been repealed by California’s Bureau of Electronic and Appliance Repair, Home Furnishings and Thermal Insulation, effective January 22, 2019. | **Approved** |
| SFM 02/22-17-4 | **22—18: Standard for Water Tanks for Private Fire Protection** | **Approve** | **Accept** | No public comments received. | The NFPA 22 standard was missed in the printing of the 2022 California Building Standards Code, Part 9. This proposed erratum is to correct that error. | **Approved** |