



**2022 California Building Standards Code  
 Significant Changes  
 for the Intervening Code Adoption Cycle  
 Effective 07/01/2024**

Title 24 Part	Volume	Title	Significant Changes?
1		Administrative Code	Y
2	1	Building Code	Y
	2	Building Code	Y
2.5		Residential Code	Y
3		Electrical Code	Y
4		Mechanical Code	Y
5		Plumbing Code	Y
6		Energy Code	N
8		Historic Buildings	N
9		Fire Code	Y
10		Existing Buildings	Y
11		CalGreen	Y

**2022 California Administrative Code  
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4	Administration Regulations – DSA-SS
5	Access to Public Buildings by Persons with Disabilities
6	Seismic Evaluation Procedures for Hospital Buildings
7	Safety Standards for Health Facilities
8	Administration Regulations – CDPH
9	Administration Regulations – OSHA
10	Administration Regulations – CEC

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**Summary**

No Significant Changes.



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Significant Changes  
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New	Change	Code Section	Code Topic	Revision and Remarks
<b>Chapter 1</b>				
	x	Article 4	Rulemaking	Updates to time limits for public comments, and updated for accessibility in hearings.
<b>Chapter 3</b>				
	x	Article 3	General provisions	Language added regarding SFM jurisdiction over UC buildings.
<b>Chapter 4</b>				
	x	Group 1	Public Schools	Edits, updates, and clarifications for public school construction under DSA-SS jurisdiction.
<b>Chapter 6</b>				
	x	All	Seismic Evaluations of Hospitals	Edits, updates, and clarifications for seismic evaluations of hospitals under OSHPD jurisdiction.
<b>Chapter 7</b>				
	x	All	Safety Stds for Health Facilities	Edits, updates, and clarifications for health facility construction under OPSHPD jurisdiction.

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6	Types of Construction
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7A	[SFM] Materials and Construction Methods for Exterior Wildfire Exposure
8	Interior Finishes
9	Fire Protection and Life Safety Systems
10	Means of Egress
11A	Housing Accessibility
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12	Interior Environment
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14	Exterior Walls
15	Roof Assemblies and Rooftop Structures

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**Summary**

Significant Changes Include:

- Chapter 2: Definitions:
  - Multiple new definitions have been added.
- Chapter 3: Occupancy Classification:
  - Business Group B includes ambulatory care facilities serving 4 or more patients (previously 6 or more patients)
  - Changes to Groups H-3
  - Group I-2.1 deleted. These will now be classified as Group B.
- Chapter 4: Special Use or Occupancy
  - Changes in requirements for care suites and ambulatory care facilities.
- Chapter 5: General height and Area Limitations:
  - 509.3 Area limitations: Exception added: Group E laboratories that are not classified as Group H and are separated by a 1-hour fire barrier.
- Chapter 7A – WUI requirements
  - Restates requirements for Class A roofing on existing structures where more than 50% of the total roof area is replaced in one year; and for any roof covering applied in an alteration, repair or replacement of roof.
  - Model ordinance added.
- Chapter 9: Fire Protection and Life Safety Systems:
  - The requirements for automatic fire sprinklers in Group A-3, E and M included in the section that describes maximum area now includes requirement that a fire wall of not less than 4-hours without openings.
  - Removed requirement for manual fire alarm system in Group E Occupancies.
  - New section added for hoist way fire detection.
  - Visible alarms: Added the following locations:
    - Shared office rooms used by 2 or more persons.
    - Normally occupied rooms used by 2 or more persons.
    - Normally occupied storage rooms.
    - Medical exam rooms in MOB's.
- Chapter 10 – Exiting
  - Added "safe dispersal areas" to list of components of the egress system.
    - Added new requirements for accessibility at safe dispersal areas.
  - Added additional requirements for delayed egress locking system.
  - Added footnote A for exit access travel distance to ambulatory care facilities.
- Chapter 11A-Housing Accessibility
  - Clarified cabinet depth requirements where receptacles are provided.
- Chapter 11B-Accessibility to public buildings, public accommodations, commercial buildings and public housing
  - Added several new definitions
  - Added several new sections for scoping and technical requirements for all-gender, multiuser restrooms
  - Fixed or clarified language on several sections.

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New	Change	Code Section	Code Topic	Revision and Remarks
<b>Chapter 1</b>				
	x	1.10.2	Section Title: OSHPD 2 Application:	Formerly OSHPD 2, 2A and 2B Removed the OSHPD 2A and 2B language and removed building specific information. <i>Application – Skilled nursing facility and intermediate care facility buildings.</i>
x		1.10.6 1.10.6.1 1.10.6.2 1.10.6.3	OSHPD 6 Scope Applicable Administrative Standards Applicable Building Standards Identification of Amendments	New classification of OSHPD 6 – Chemical dependence recovery hospital buildings.
	x	1.11.1	SFM-Office of the State Fire Marshal	State-occupied buildings: Properties leased by UC is no longer listed; and the provision for local jurisdiction over those buildings not listed in Items 1 through 11 has been removed.
	x	107.2.3	Means of Egress	Previous: In other than occupancies in Groups R-2, R-3 and I-1, the construction documents shall designate the number of occupants to be accommodated on every floor, and in all rooms and spaces.  New: In other than occupancies in Groups R-2, R-2.1 and R-3...
<b>Chapter 2</b>				
	x	202	Definitions	Multiple new terms added; references to Occupancy I-2.1 removed.

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New	Change	Code Section	Code Topic	Revision and Remarks
<b>Chapter 3</b>				
	x	304.1	Business Group B, Ambulatory Care Facilities	Ambulatory care facilities <b>servicing four or more patients</b> now assigned to Group B (previously six or fewer patients).
	x	307.4	High-Hazard Group H-2	Flammable Gases now in two categories: *Category 1A flammable gases *Category 1B flammable gases having a burning velocity greater than 3.9 inches per second (10 cm/s)
	x	307.5	High Hazard Group H-3	Added Category 1B flammable gases having a burning velocity greater than 3.9 inches per second (10 cm/s)
	x	308.3.3	Institutional Group I-2.1	Group I-2.1 deleted. These occupancies are now assigned to Group B Ambulatory care facilities. CBC 422 will still apply.
<b>Chapter 4</b>				
	x	407	Group I-2	I-2.1 deleted
	x	407.4.4.1	Exit Access Through Care Facilities	<i>New: In a care suite required to have more than one exit, one exit access is permitted to pass through an adjacent care suite provided that all of the other requirements of Sections 407.4 and 1016.2 are satisfied.</i>
x		414.2.5.4	Flammable Gas	New section for Category 1B flammable gas
	x	422.2	Separation	Ambulatory care facilities where the potential for four or more care recipients are to be incapable of self-preservation at any time shall be separated from adjacent spaces or tenants with a <i>1-hour fire barrier</i> installed in accordance with Section 707.
	x	422.3.2	Refuge Area	Not less than 30 net square feet for each nonambulatory care recipient <i>and not less than 15 net square feet per ambulatory occupant</i> shall be provided...
x		422.3.4	<i>Distance of Travel</i>	<i>The distance of travel between any point in an ambulatory care facility and an exit shall be not greater than 200 feet.</i>



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New	Change	Code Section	Code Topic	Revision and Remarks
<b>Chapter 5</b>				
	x	509.3	Area Limitations	Exception added: <i>Group E Laboratories that are not classified as a Group H and are separated by a 1-hour fire barrier.</i>
<b>Chapter 7A</b>				
	x	705A.1	Roofing, General	Requires Class A roofing for: <ul style="list-style-type: none"> <li>The entire roof of existing structures when more than 50% of the total roof area is replaced in one year.</li> <li>The entire roof of every new structure.</li> <li>Any roof covering applied in an alteration, repair or replacement of roof.</li> </ul> Restatement of language found in Chapter 15.
	x	705A.2	Roofing, Voids	Same requirements, but minor reformatting of section.
	x	707A.5 through 707A.8	Protection of exposed roof decks and ceilings at eaves, open and enclosed, and porch ceilings	Exceptions for fascia and other architectural trim boards has been removed.
	x	710A.2	Applicability of Chapter 7A to U-occupancies and other miscellaneous structures.	Exception 3 for exterior architectural trim removed.
x		711A	Model Ordinance	Model ordinance added.
<b>Chapter 8</b>				
	x	Table 803.13	Interior Wall and Ceiling Finishes by Occupancy	Occupancy I-2.1 removed from table.
	x	804.4.2	Minimum critical radiant flux	Occupancy I-2.1 removed.

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New	Change	Code Section	Code Topic	Revision and Remarks
<b>Chapter 9</b>				
	x	903.2.1.3, 903.2.3, and 903.2.7	Automatic Sprinklers required for Groups A-3, E, and M occupancies	Items 4, 5, and 4, respectively, amended to read "...by fire walls of <b>NOT</b> less than four-hour fire resistance rating..."
	x	903.3.2	Quick-response and residential sprinklers	Item 2 requiring sprinklers in all spaces in smoke compartments with gas appliances in I-2 occupancies removed.
	x	907.2.3	Fire Alarm and Detection in Group E occupancies	Amended to remove requirement for manual fire alarm system.
	x	907.2.6.2	Fire alarm and Detection in Group I occupancies	Removed I-2.1 occupancy.
	x	907.2.9.3	Fire alarm and detection in Group R occupancies	Language amended to include detectors compliant with UL268. Additional clarifying language related to activation.
	x	907.2.13	Fire alarm and detection, high-rise and I-2 occupancies	Exception 6 modified to remove I-2.1 occupancies.
x		907.3.3.1	Elevator hoist-way fire detection	New section for hoist-way fire detection.
	x	907.5	Occupant notification	Updates made to remove I-2.1 from various sections.
	x	907.5.2.3.1	Visible alarms	Four additional public areas added to spaces requiring visible alarms: <ul style="list-style-type: none"> <li>• Shared office rooms used by two or more persons.</li> <li>• Normally occupied rooms used by two or more persons</li> <li>• Normally occupied storage areas</li> <li>• Medical exam rooms in MOB.</li> </ul>
	x	909.5.3	Opening protection	Removed references to I-2.1 occupancy.

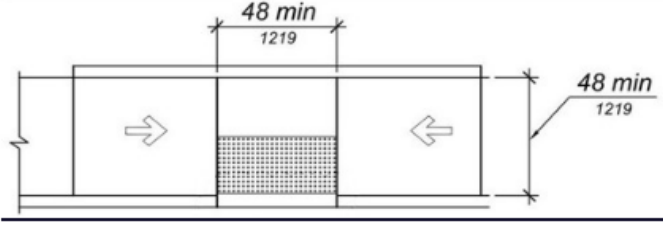
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New	Change	Code Section	Code Topic	Revision and Remarks
<b>Chapter 10</b>				
	x	All		Removed references to I-2.1 occupancy throughout.
x		1009.2, Item 11	Egress components	Added "safe dispersal areas" to list of components of egress system.
	x	1010.1.1	Size of doors	Removed reference to I-2.1, added language, "I-2 or <b><i>an ambulatory care facility...</i></b> "
	x	1010.2.4, Item 2	Locks and latches	Revised to reference Groups I-2 and R-2.1
	x	1010.2.13.1, Item 1	Delayed egress locking system	Additional requirements added for delayed egress systems.
	x	Table 1017.2	Exit Travel Distance	Reference to Section 422.3.4 added to Footnote A for exit travel distance in ambulatory care facilities.
	x	1026.4.1	Horizontal exits, capacity	Reference to Group I-2.1 removed. Added Group B ambulatory care facilities.
x		1028.5, Exception 6	Exit Discharge, Access to public way	New requirements added for accessibility in safe dispersal areas.
<b>Chapter 11A</b>				
	x	CBC 1118A	Egress and Areas of Refuge	Omits reference to CBC 1007 for accessible means of egress, which was incorrect.
	x	1136A.1	Electrical switch and control heights	Clarifies how the maximum 25 ½" dimension should be provided. (24" of cabinet with additional 1 ½" countertop extension.

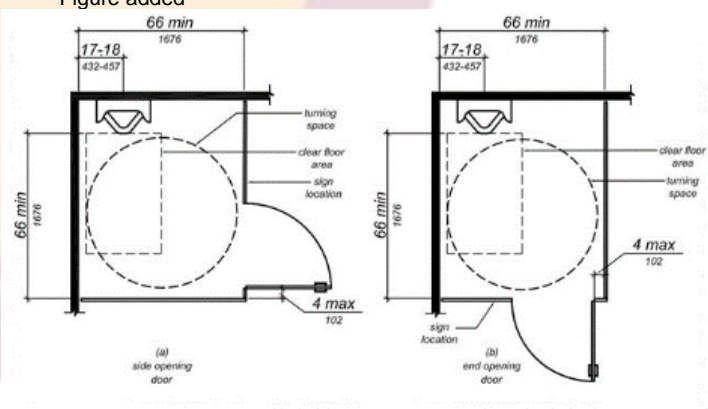
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New	Change	Code Section	Code Topic	Revision and Remarks
<b>Chapter 11B</b>				
	x	11B-213.2.4	Multi-User All-Gender Toilet Rooms	Adds <u>"Where multi-user all-gender toilet rooms are provided, they shall comply with Section 11B-213.3.1."</u>
	x	11B-213.3.1	Toilet Compartments and Urinal Compartments	Added urinal compartments to the section
x		11B-213.3.1.1	New Subsection of existing section 11B-213.3.1 for toilet compartments only.	Only the section number is changed from 11B-213.3.1 to 11B-213.3.1.1
x		11B-213.3.1.2	New Subsection of existing section 11B-213.3.1 for toilet and urinal compartments.	Adds scoping section for accessible urinal compartments.
x		11B-213.3.3	New section providing scoping for urinal compartments	Added scoping for accessible urinals
	x	11B-216.5	Accessible Parking and EVC Signage	Adds <u>"and electric vehicle charging facilities."</u> to the heading and adds the following language to the code section: <u>"Signs identifying electric vehicle charging spaces and signs within electric vehicle charging facilities shall comply with Section 11B-216.5."</u>
	x	11B-216.5.2	EV Charging Space signage	Replaces existing 11B-216.5.2 Parking Facilities... with <u>11B-216.5.2 Electric vehicle charging spaces. Signs identifying Electric Vehicle Charging Spaces shall comply with Section 11B-812.8.</u>
x		11B-216.5.3	New section for parking and EV charging spaces.	Parking and electric vehicle charging facilities. Signs within parking and charging facilities shall comply with Section 11B-216.5.3.
x		11B-216.5.3.1	New section for pedestrian signage within charging facilities.	Signs intended for use by pedestrians within parking and charging facilities, including directional or informational signs indicating parking sections or levels, shall comply with the requirements of Section 11B-216.
x		11B-216.5.3.2	New section for additional (warning) signage within charging facilities.	Signs within parking facilities containing parking spaces complying with Section 11B-502 shall comply with Section 11B-502.8.

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New	Change	Code Section	Code Topic	Revision and Remarks
x		11B-216.8.2	Stall Identification	Provides scoping for identification at all-gender multi-user toilet facilities
x		11B-216.8.3	Signs	Provides scoping for signs at toilet and urinal compartments
	x	11B-226.4	Baby Changing Tables	Revises section to include the prohibit the installation of baby changing tables in urinals
	x	11B-233.3.1.2	Modification to scoping language of the section	changes "facilities with" to "buildings with three or more dwelling units"
	x	11B-233.3.1.2.1	Modification to scope of elevator buildings	Elevator buildings. In elevator buildings an elevator serving floors above the ground floor shall serve all floors, levels and mezzanines. Residential dwelling units on floors served by an elevator shall be adaptable.
	x	11B-233.3.1.2.2	Non-elevator buildings changed to Ground floor residential dwelling units.	Ground floor residential dwelling units. Ground floor residential dwelling units shall be adaptable.
x		11B-249.1.3	Adult Changing Facilities	New section adds adult changing facility requirements for certain alterations to existing commercial spaces of public amusement. This section was added to come into alignment with California Health and Safety Code Section 19952.5, which goes into effect in 2025.
	x	Figure 11B-406.3.2	Parallel Curb Ramps	Revises location of detectable warnings to align with code text.  <p style="text-align: center;"><b>Figure 11B-406.3.2 Parallel Curb Ramps</b></p>
	x	11B-604.8.1.2	Accessible Toilet Stall doors	Adds privacy latch requirement to stall door requirements

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New	Change	Code Section	Code Topic	Revision and Remarks
	x	11B-604.8.2.2	Ambulatory Stall Doors	Adds privacy latch requirement to ambulatory stall door requirements
	x	11B-605.1	Urinals	Revised general urinal section
x		11B-605.5	Urinals	New section for urinals compartments technical requirements
x		11B-605.4	Flush Controls	Adds flush control requirements for urinals in urinal compartments
x		11B-605.5.1	Urinal Compartments	Urinal Compartment door requirements added
x		11B-605.5.2	Urinal Compartments	Urinal Compartment maneuvering Clearances added
x		11B-605.5.3	Urinal Compartments	Door requirements for urinal compartments
x		11B-605.5.4	Urinal Compartments	Toe clearance requirements for urinal compartments
*		Figure 11B-605.5 Urinal Compartment	New urinal compartment	<p style="text-align: center;">Figure added</p>  <p style="text-align: center;"><b>Figure 11B-605.5 Urinal Compartment</b></p>

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New	Change	Code Section	Code Topic	Revision and Remarks
<b>Chapter 12</b>				
	x	1202.3, Item 5.1	Unvented Attic Assemblies	Removed HCD amendment allowing no insulation below roof tiles, wood shingles or shakes installed over battens without continuous underlayment.
	x	1224	OSHPD 1 Hospitals	Changes throughout.
	x	1225.4.1.6.3	OSHPD 2 Skilled Nursing Bathroom facilities	Removed requirement for min. one bathtub per floor.
x		1225.1.2.5	OSHPD 2 SNF, Operation and sills of glazing	New sections with requirements for max. sill height and key / tool availability for operable windows.
	x	1226	OSHPD 3 Clinics	Minor edits.
	x	1228	OSHPD 5 Acute Psychiatric	Updates to Application, definitions, other minor edits.
x		1226	OSHPD 6 Chemical dependency treatment	New section.
	x	1231	BSCC Local Detention	Minor edits. The term "inmate" is replaced with "incarcerated person".
<b>Chapter 14</b>				
	x	1404.3	Vapor Retarders	Removal of HCD amendment, renumbering of sections.
<b>Chapter 15</b>				
	x	1505	Roofing, Fire Classification	Updates to requirements for roofing and referenced standards

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**Summary**

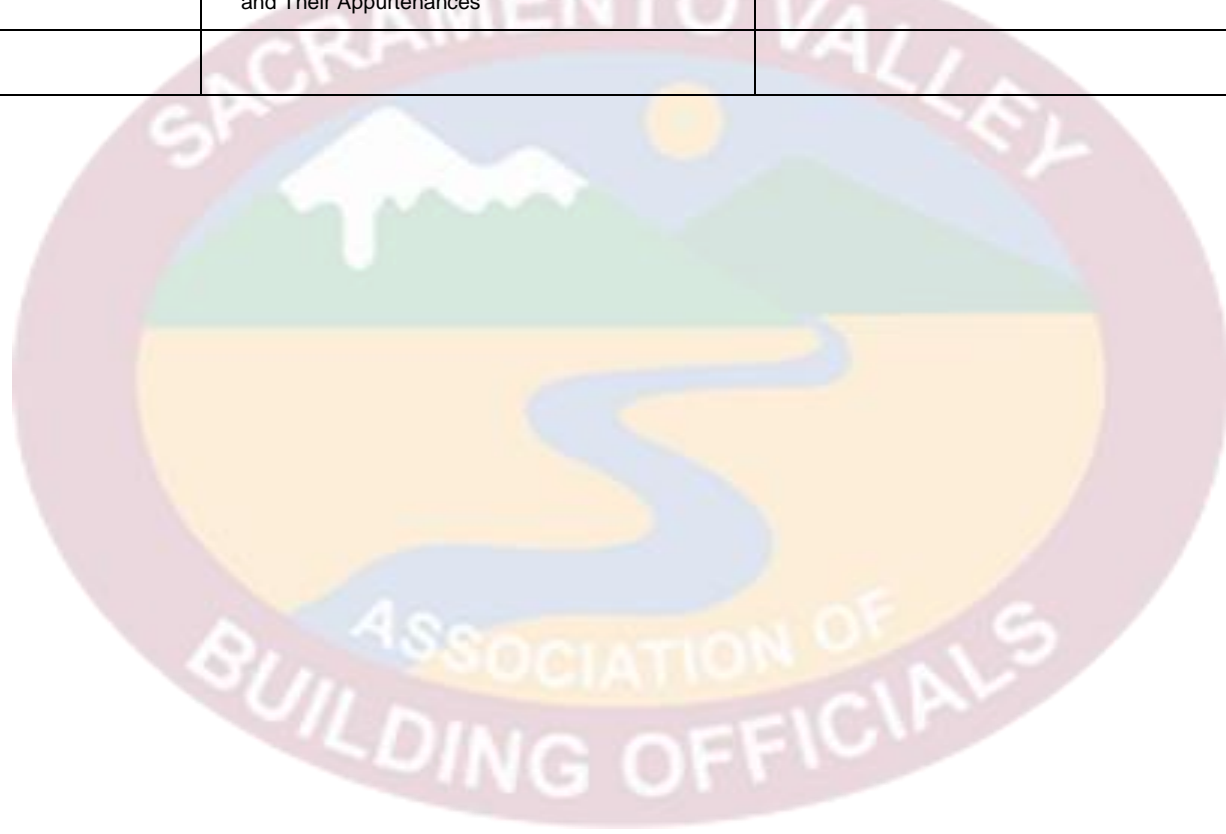
Significant Changes Include:

- No significant changes. Minor edits for DSA-SS and OSHPD/HCAI-regulated occupancies. DSA-SS has amended min. compressive strength for masonry ( $f_m$ ) to 2000 psi for those jobs under their jurisdiction.
- NFPA 24-22 adopted, with same amendments as previous NFPA 24-19



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New	Change	Code Section	Code Topic	Revision and Remarks
<b>Chapter 35</b>				
	x	NFPA 24	Standard Installation of Private Fire Service Mains and Their Appurtenances	Change from NFPA 24-19 to NFPA 24-22



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Chapter	Title
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Appendix AX	Swimming Pool Safety Act
Appendix AY	Areas Protected by the Facilities of the Central Valley Flood Protection Plan
Appendix AZ	Emergency Housing



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**Summary**

Significant Changes Include:

- Rearranged language in Chapter 9, Section R337 [Materials & Construction Methods for Exterior Wildfire Exposure].
- Moved some language from section R902 [Roof Assemblies, Fire Classification] to section R337 [Materials & Construction Methods for Exterior Wildfire Exposure].
- Added an example of a Model Ordinance for Fire Hazard Severity Zone Adoption
- Deleted the exception to fascia and architectural trims in sections R337.7.5, R337.7.6, R337.7.7, R337.7.8 and R337.10.2
- Added a table to section R328 [Energy Storage, Energy Ratings] to provide maximum allowable aggregate ratings for different locations.
- Updated two referenced standards.



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New	Change	Code Section	Code Topic	Revision and Remarks
<b>Chapter 1 - Scope and Application</b>				
	X	1.11.1	Specified State Occupied Buildings	Amended the definition of Specified State-Occupied buildings to remove the exception that states <i>“Except as provided in Items 1 through 11, buildings shall become the responsibility of the local jurisdiction.”</i>  Amended the definition of Specified State-Occupied buildings to remove the reference to the University of California (UC).
<b>Chapter 2 - Definitions</b>				
No change proposed.				
<b>Chapter 3 - Building Planning</b>				
	X	R337.1.1,	Scope	Corrected the term “Wildland-Urban Interface (WUI) Fire Area” to read “Wildland-Urban Interface (WUI) Area” to correlate with the definition of WUI.
	X	R337.1.2,	Purpose	
	X	R337.1.3,	Application,	
	X	R337.1.3.1,	Application date and where required,	
	X	R337.2	Definitions: FIRE PROTECTION PLAN	
	X	R902.1.1	Roofing coverings within fire hazard severity zones	
	X	R337.1.2	Purpose	Added the term “Local Responsibility Areas (LRA)”.
	X	R337.5.1	General	Rearranged some of the language in this section and moved the following language from section R902.1.1 to R337.5.1: <i>“The entire roof covering of every existing structure where more than 50 percent of the total roof area is replaced within any 1-year period, the entire roof covering of every new structure, and any roof covering applied in the alteration, repair, or replacement of the roof of every existing structure, shall be a fire-retardant roof covering that is at least Class A rating fire classification.”</i>

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New	Change	Code Section	Code Topic	Revision and Remarks
X X	X	R337.5.2, R337.5.2.1, R337.5.2.2	Roof covering voids, Airspace under roof covering, Roof underlayment	Rearranged this section by separating the code language into two new subsections (R337.5.2.1 and R337.5.2.2) and adding "UL 790" language relating to roofing requirements for Fire Hazard Severity Zones.
	X X X X X	R337.7.5, R337.7.6, R337.7.7, R337.7.8, R337.10.2	Open roof eaves, Enclosed roof eaves and roof eave soffits, Exterior porch ceilings, Floor projections, Applicability	Deleted the exception to fascia and architectural trims in the sections listed.
X		R337.11	Model Ordinance for Fire Severity Zone Adoption	Added model ordinance as a template for the establishment of documenting fire hazard severity zones as per direction of Government Code Section 51179.
	X	R328.5	Energy Ratings (for Energy Storage Systems)	Amended this section to provide clear intent of the maximum threshold of kWh of ESS for each location on a property.
	X	Table R328.5	Maximum Aggregate Ratings of Energy Storage Systems	Added new table that includes allowable locations, maximum aggregate ratings for each location ranging from 40 kWh to 600 kWh, and installation requirements for each allowable location.

**Chapter 4 - Foundations**

No changes proposed.

**Chapter 5 - Floors**

No changes proposed.

**Chapter 6 – Wall Construction**

No changes proposed.

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New	Change	Code Section	Code Topic	Revision and Remarks
<b>Chapter 7 – Wall Covering</b>				
No changes proposed.				
<b>Chapter 8 – Roof-Ceiling Construction</b>				
No changes proposed.				
<b>Chapter 9 – Roof Assemblies</b>				
	X	R902.1	Roofing covering materials	<p>Amended exceptions 2 and 4 of this section to read:</p> <p><i>[Exception] 2. Class A roof assemblies include ferrous or copper shingles or sheets, metal sheets and shingles, clay or concrete roof tile, or slate installed on noncombustible decks <u>or ferrous, copper or metal sheets installed without a roof deck on noncombustible framing.</u></i></p> <p><i>[Exception] 4. Class A roof assemblies include slate installed over <u>ASTM D226, Type II underlayment over combustible decks.</u></i></p>
	X	R902.1.1	Roof Coverings within Fire Hazard Severity Zones	The previous language from this section was removed as an amendment addressing it was added to section R337.5.1.

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New	Change	Code Section	Code Topic	Revision and Remarks
	X	R902.1.1	Roofing Requirements within Fire Hazard Severity Zones or in the Wildland-Urban Interface (WUI)	Retitled section R902.1.1 to read: "Roofing requirements within Fire Hazard Severity Zones <u>or in the Wildland-Urban Interface (WUI).</u> "
	X	R902.1.2	Roof Coverings in all other areas other than Fire Hazard Severity	Retitled section R902.1.2 to read: "Roof coverings in all other areas other than Fire Hazard Severity Zones or a Wildland-Urban Interface (WUI) area"
	X	R902.1.3	Roofing requirements a wildland-urban interface fire area.	Section R902.1.3 was removed and the language from this section was moved to section R902.1.1
	X	R902.2	Fire-Retardant Treated Wood Shingles and Shakes	Amended this section to add reference to ASTM E108 and UL 790.

**Chapter 10 – Chimneys and Fireplaces**

No changes proposed.

**Chapter 44 – Referenced Standards**

	X	Reference Standard E108	Test Methods for Fire Tests of Roof Coverings	Adopted the latest edition of ASTM E108: E108-2020a.
	X	Reference Standard UL 790	Standard Test Methods for Fire Tests of Roof Coverings	Adopted the 9th edition of UL 790: 790-2022.

**Appendix AF – Radon Control Methods:**

No changes proposed.

**Appendix AH – Patio Covers**

No changes proposed.



**2022 California Residential Code  
Significant Changes  
for the Intervening Code Adoption Cycle  
Effective 07/01/2024**

New	Change	Code Section	Code Topic	Revision and Remarks
<b>Appendix AI – Private Sewage Disposal</b>				
No changes proposed.				
<b>Appendix AJ – Private Sewage Disposal</b>				
No changes proposed.				
<b>Appendix AK – Sound Transmission</b>				
No changes proposed.				
<b>Appendix AL – Permit Fees</b>				
No changes proposed.				
<b>Appendix AO – Automatic Vehicular Gates</b>				
No changes proposed.				
<b>Appendix AQ – Tiny Homes</b>				
No changes proposed.				
<b>Appendix AR – Light Straw-Clay Construction</b>				
No changes proposed.				
<b>Appendix AS- Strawbale Construction</b>				
No changes proposed.				

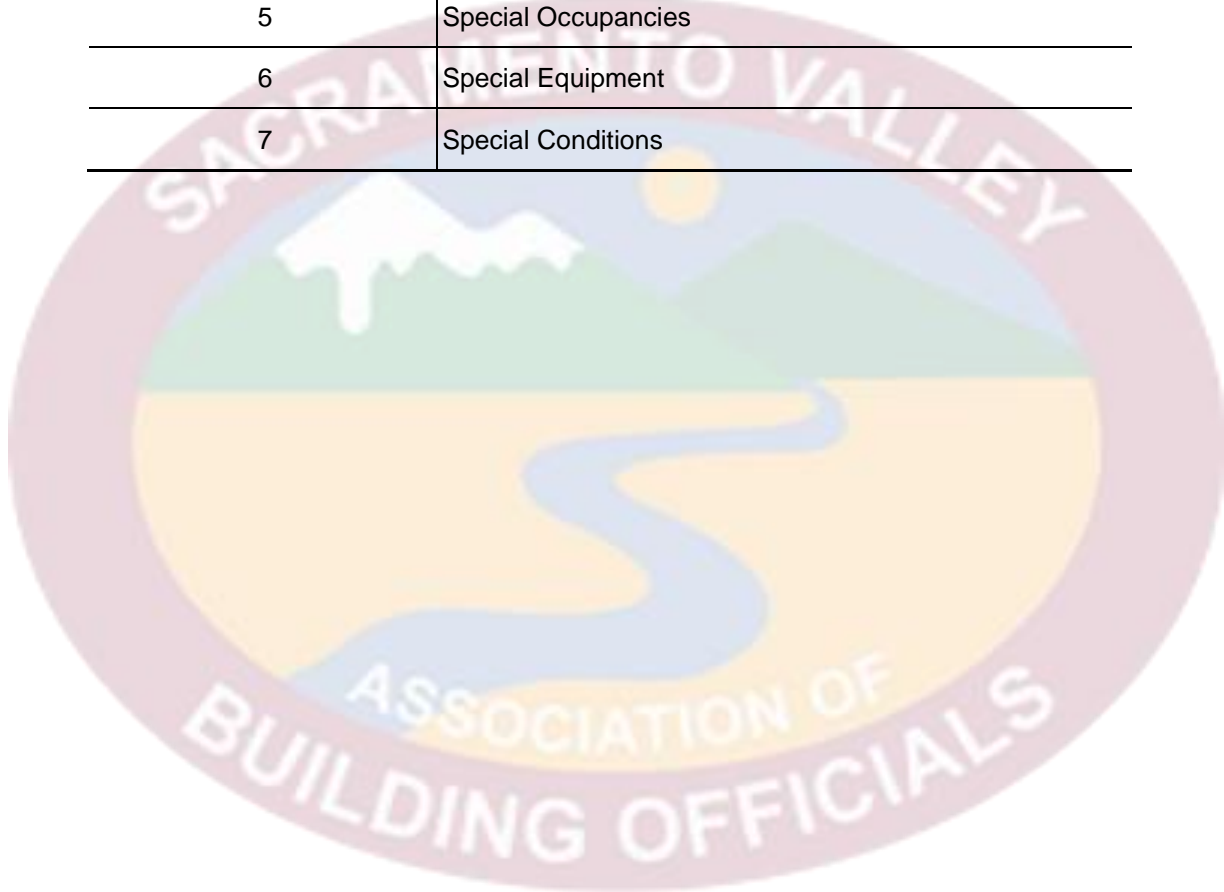
**2022 California Residential Code  
Significant Changes  
for the Intervening Code Adoption Cycle  
Effective 07/01/2024**

New	Change	Code Section	Code Topic	Revision and Remarks
<b>Appendix AT [RE] - Solar-Ready Provisions – Detached One-and-Two Family Dwellings and Townhomes</b>				
No changes proposed.				
<b>Appendix AV – Board of Appeals</b>				
No changes proposed.				
<b>Appendix AW – 3D-Printed Building Construction</b>				
No changes proposed.				
<b>Appendix AX – Swimming Pool Safety Act</b>				
No changes proposed.				
<b>Appendix AY – Areas Protected by the Facilities of the Central Valley Flood Protection Plan</b>				
No changes proposed.				
<b>Appendix AZ – Emergency Housing</b>				
No changes proposed.				

**2022 California Electric Code -Part 3  
Significant Changes for the Intervening Code Adoption Cycle  
Effective 07/01/2024**

**Table of Contents**

<b>Chapter</b>	<b>Title</b>
Introduction	General Provisions –Article 89
2	Wiring and Protection
5	Special Occupancies
6	Special Equipment
7	Special Conditions

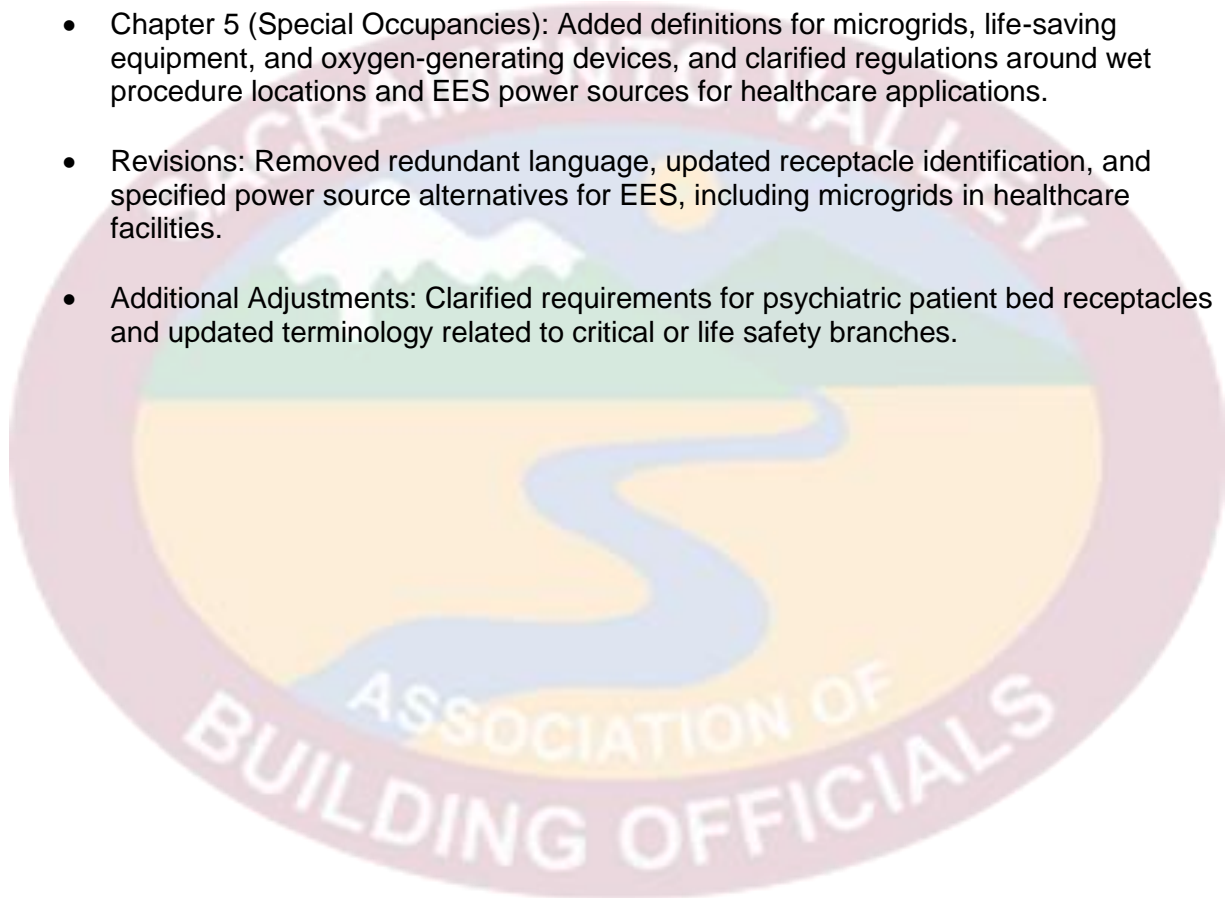


# 2022 California Electric Code -Part 3 Significant Changes for the Intervening Code Adoption Cycle Effective 07/01/2024

## Summary

Significant Changes Include:

- General Code Provisions (Article 89): Added a list of specified state-occupied buildings and updated authority and reference sections.
- Chapter 2 (Wiring and Protection): Introduced a new section for health care facilities with specific requirements for OSHPD.
- Chapter 5 (Special Occupancies): Added definitions for microgrids, life-saving equipment, and oxygen-generating devices, and clarified regulations around wet procedure locations and EES power sources for healthcare applications.
- Revisions: Removed redundant language, updated receptacle identification, and specified power source alternatives for EES, including microgrids in healthcare facilities.
- Additional Adjustments: Clarified requirements for psychiatric patient bed receptacles and updated terminology related to critical or life safety branches.



**2022 California Electric Code -Part 3  
Significant Changes for the Intervening Code Adoption Cycle  
Effective 07/01/2024**

New	Change	Code Section	Code Topic	Revision and Remarks
<b>Introduction – General Code Provisions</b>				
	x	89.111.1	[OSFM] Specified state-occupied buildings	Added definition list of specified state-occupied buildings, and updated authority and reference sections.
<b>Chapter 2– Wiring and Protection</b>				
	x	220.1	[OSHPD] Scope.	Added pointer to Part VI for health care facilities.
x		Part VI.	[OSHPD] Health care facilities.	Added new section with requirements for OSHPD 1, 2, 3, 4 and 5.
<b>Chapter 5– Special Occupancies</b>				
x		517.1(B)	[OSHPD] Scope.	Added new section for OSHPD 2. Renumbered following sections.
	x	517.1(C)	[OSHPD] Electrical Equipment Schedules.	Removed OSHPD 4 from occupancies.
x		517.2	[OSHPD] Definitions.	Added microgrid, life-saving equipment and oxygen-generating devices definitions.
x		517.13(C) and (D).	[OSHPD] Grounding System Testing	New sections for grounding system and receptacle testing, with reference to NFPA 99.
	x	517.20	[OSHPD] Wet procedure locations.	Added text that operating rooms are wet procedure locations unless otherwise determined.
	x	517.20(A)(3).	[OSHPD] Operating Room GFCI protection	Added measures for OSHPD 1, 3 and 4 for GFCI protection. Each receptacle shall be individually protected.
x		517.30(B.1).	[OSHPD] Essential Electrical Systems (EES)	New section for OSHPD 1, 3, 4 and 5 for power sources for the Essential Electrical System (EES) and repealed unnecessary language.
	x	517.30(B)(1)	[OSHPD] EES Generating units.	Subparagraphs to “generating units” stricken because no longer needed.
x		517.30(B)(4)	[OSHPD] EES Healthcare Microgrid Systems	Outlines Health care microgrid systems requirements. Allows healthcare microgrids to serve nonessential loads.
	x	517.31(E)	[OSHPD] Receptacle identification.	Removed “light switches” from the section.
	x	517.35(B)(6)	[OSHPD] Equipment for delayed automatic or manual connection.	Clarified that minimal autoclaving equipment (at least one per building) shall be required to be connected to the emergency branch of the facility's EES. This is to fix confusing language in the model code.

**2022 California Electric Code -Part 3  
Significant Changes for the Intervening Code Adoption Cycle  
Effective 07/01/2024**

New	Change	Code Section	Code Topic	Revision and Remarks
	x	517.41(B.1)	[OSHPD] Power sources for the EES.	Amended to provide four alternatives for the EES, including a microgrid. Model code language was repealed and changed exception to informational note.
	x	517.42(E)	[OSHPD] Receptacle identification.	Removed light switches from code text.
x		517.42(F)	[OSHPD] EES OCPD Coordination.	Added new code section to address overcurrent protective devices serving the EES. Includes exceptions.
	x	517.44(A)(1)a	[OSHPD] EES Connection to equipment branch.	Added that receptacles are not required for psychiatric patient beds [OSHPD 5].
	x	517.45(F)	[OSHPD] Receptacle identification [OSHPD 3].	Removed light switches and added "critical or life safety branches" to replace "emergency system."
x		517.160(B)(4)	[OSHPD] Isolated power systems. Testing.	Added Line Isolation Monitor Tests and Circuit tests per NFPA 99 testing reference sections.
<b>Chapter 6– Special Equipment</b>				
	x	695.3(G)	[OSHPD] Electric Motor Driven Fire Pumps. Power source selection.	Added OSHPD 3 (surgical clinics) and OSHPD 5 to the section.
<b>Chapter 7– Special Conditions</b>				
x		705.20(8)	[OSHPD] Disconnection means, source.	Added new language to clarify the location of the disconnecting means.

**2022 California Mechanical Code -Part 4  
Significant Changes for the Intervening Code Adoption Cycle  
Effective 07/01/2024**

**Table of Contents**

Chapter	Title
1	Administration
2	Definitions
3	General Regulations
4	Ventilation Air
6	Duct Systems
11	Refrigeration
13	Fuel Gas Piping
16	Stationary Power Plants
17	Referenced Standards

# 2022 California Mechanical Code -Part 4 Significant Changes for the Intervening Code Adoption Cycle Effective 07/01/2024

## Summary

Significant Changes Include:

- Chapter 1 – Scope and Administration: Added a list of specified state-occupied buildings and updated authority and reference sections.
- Chapter 2 – Definitions: Added new definitions for refrigerant and Refrigerant Concentration Limit (RCL) and included Class 2L in refrigerant safety classifications.
- Chapter 3 – General Regulations: Introduced new labeling requirements for refrigerant designation on heat pump/cooling appliances and absorption units and updated essential mechanical provisions and equipment schedules for OSHPD facilities.
- Chapter 4 – Ventilation Air: Modified ventilation requirements for health care facilities, including changes to outdoor air intakes, air circulation, and filter provisions, and updated related tables with new MERV ratings.
- Chapter 6 – Duct Systems: Modified smoke detector locations and requirements for air-moving systems, introduced additional smoke detection requirements for high-rise buildings, and reinstated provisions for automatic shutoff in Group I-2 return air systems.
- Chapter 11 – Refrigeration: Early adopted model code language related to A2L refrigerants from the 2024 Uniform Mechanical Code (UMC) and incorporated multiple sections, tables, and figures from the 2024 UMC into the 2022 California Mechanical Code.
- Chapter 13 – Fuel Gas Piping: Added requirements for fuel oil piping connected to internal combustion engines and gas turbines to comply with NFPA 37.
- Chapter 16 – Stationary Power Plants and Chapter 17 – Reference Standards: Amended sections to include liquid-fueled engines and gas turbines, and adopted the latest editions of standards from AHRI, ASHRAE, NFPA, and UL.



**2022 California Mechanical Code -Part 4  
Significant Changes for the Intervening Code Adoption Cycle  
Effective 07/01/2024**

New	Change	Code Section	Code Topic	Revision and Remarks
<b>Chapter 1– Scope and Administration</b>				
	x	1.11.1	[OSFM] Any State Institution or Other State-Owned or Specified State-Occupied Building.	Added list of specified state-occupied buildings, and updated authority and reference sections.
<b>Chapter 2– Definitions</b>				
x		N/A	[OSFM] Refrigerant	Added definition: Refrigerant
x		N/A	[OSFM] Refrigerant Concentration Limit (RCL)	Added definition: Refrigerant Concentration Limit
	x	N/A	[OSFM] Refrigerant Safety Classifications	Added Class 2L to flammability class list and defined in flammability classification list.
<b>Chapter 3– General Regulations</b>				
	x	307.3	[OSFM] Heat pump and electric cooling appliances.	Added a new requirement to labeling for refrigerant designation on heat pump/cooling appliances.
	x	307.4	[OSFM] Absorption units.	Added a new requirement to labeling for refrigerant designation on absorption units.
	x	320.1.1	[OSHPD 1, 1R, 4 & 5] Essential mechanical provisions.	Updated language to include adiabatic atomizing type humidifiers and to comply with water treatment requirements with ASHRAE 170.
	x	323.0	[OSHPD 1, 1R, 4 & 5] Mechanical equipment schedules.	Amended language for clarity to indicate the requirement applies to both essential power and special seismic certification.
x		324.0	[OSHPD 1, 1R, 4 & 5] Diesel-Powered emergency generators.	Added new section for a separation distance for diesel-powered generators exhaust to operable doors, windows and outside air intake openings.
x		325.0	[OSHPD 2] Alternate source of power for safe temperatures.	Added a new section for alternate source of power for mechanical equipment to maintain a safe temperature.
<b>Chapter 4– Ventilation Air</b>				

**2022 California Mechanical Code -Part 4  
Significant Changes for the Intervening Code Adoption Cycle  
Effective 07/01/2024**

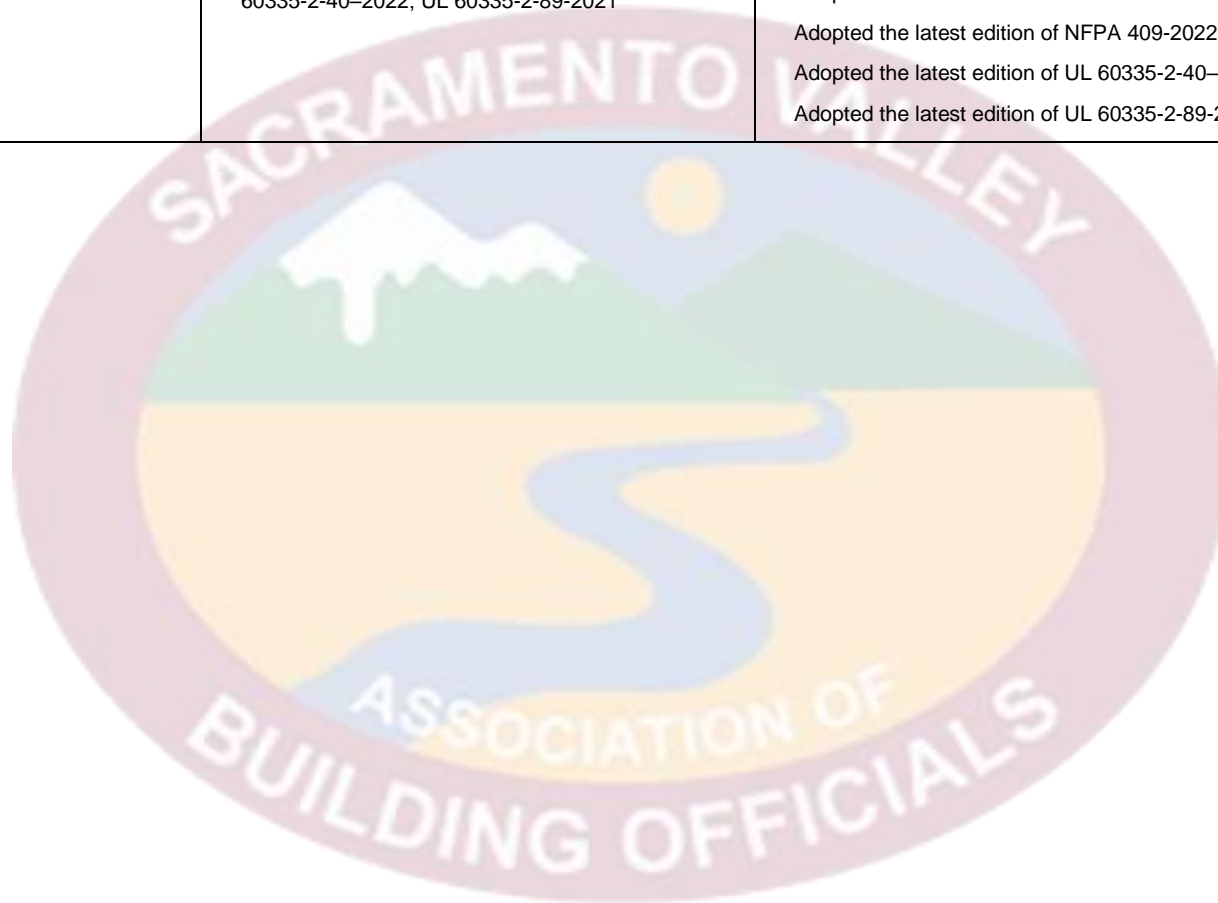
New	Change	Code Section	Code Topic	Revision and Remarks
x		402.1.2	[OSHPD 1, 1R, 2, 3, 4 & 5] Ventilation in Health Care Facilities.	Added/modified requirement for ASHRAE 170 Section 6.3.1.2. regarding the relief air discharge shall be at least 10 feet from outside air intake. 407.1.2 Ventilation System Details. [OSHPD 1, 1R, 2, 3, 4 &
	x	407.1.2	[OSHPD 1, 1R, 2, 3, 4 & 5] Ventilation System Details.	Fans serving exhaust systems shall have ductwork within the building under negative pressure.
	x	407.2.1	[OSHPD 1, 1R, 2, 3, 4 & 5] Outdoor Air Intakes.	Modified to clarify requirements for outside air intakes located below grade areaway.
	x	407.4.1.1	[OSHPD 1, 1R, 2, 3, 4 & 5] Air Circulation.	Repeal nurseries and added class 3 imaging for a new room type added to California building code.
	x	408.1.5	[OSHPD 1, 1R, 2, 3, 4 & 5] Filters.	Modified exception regarding humidification to add a referenced section number.
x		408.4.2	[OSHPD 1, 1R, 2, 3, 4 & 5] Filters for Outpatient Facilities.	Modified to add recirculating filter provisions for clinic spaces with a MERV 6.
	x	Table 4-A	PRESSURE RELATIONSHIP AND VENTILATION REQUIREMENTS FOR GENERAL ACUTE CARE HOSPITALS, SKILLED NURSING FACILITIES, INTERMEDIATE CARE FACILITIES, CORRECTIONAL TREATMENT CENTERS, OUTPATIENT FACILITIES, AND LICENSED CLINICS.	Modified Table and footnotes.
	x	Table 4-B	FILTER EFFICIENCIES FOR CENTRAL VENTILATION AND AIR-CONDITIONINGSYSTEMS IN GENERAL ACUTE CARE HOSPITALS, ACUTE PSYCHIATRIC HOSPITALS, OUTPATIENT FACILITIES AND LICENSED CLINICS.	Modified Table and footnotes. Increase minimum MERV rating for selected spaces.
	x	Table 4-C	FILTER EFFICIENCIES FOR CENTRAL VENTILATION AND AIR-CONDITIONING SYSTEMS IN GENERAL ACUTE CARE HOSPITALS, ACUTE PSYCHIATRIC HOSPITALS, OUTPATIENT FACILITIES AND LICENSED CLINICS.	Modified Table and footnote. Increase minimum MERV rating for selected spaces.
<b>Chapter 6– Duct Systems</b>				
	x	609.1	[OSFM] Air-moving systems and smoke detectors.	Modified the location within the main supply-air duct, the detection of smoke, downstream of both fan and filters for interruption of the power source to the

**2022 California Mechanical Code -Part 4  
Significant Changes for the Intervening Code Adoption Cycle  
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New	Change	Code Section	Code Topic	Revision and Remarks
				automatic shutoff of the air-moving equipment. Modified exception number one.
x		609.1.1	[OSFM] Duct smoke detectors.	Relocated existing language from the charging paragraph of CMC Section 609.1 to add new Section 609.1.1 adding additional smoke detection requirements for high-rise buildings with occupied floors located more than 75 feet above the lowest level of building access.
x		609.2	[OSFM] Air-moving systems and smoke detectors in Group I-2.	Reinstated provisions in the charging paragraph that last appeared in the 1992 California Mechanical Code that requires automatic shutoff of return air systems.
<b>Chapter 11– Refrigeration</b>				
x	x	1103.1.1, Table 1103.1.1, Table 1104.1, 1104.2, 1104.4 - 1104.9.4, 1105.1, 1105.12.1, 1106.2, 1106.2.2 - 1106.2.9.1, 1106.4 - 1106.11.11.4, Figure 1106.11.11.4(1), Figure 1106.11.11.4 (2), 1107.1.7.1 - 1107.1.7.3, 1107.1.9, 1108.3, 1108.4, 1112.11.1 and 1115.5.	[OSFM] A2L Refrigerants	SFM has early adopted model code language (sections, Tables and figures) related to A2L Refrigerants from the 2024 Uniform Mechanical Code (UMC). The newly adopted 2024 UMC and modified sections of the 2022 California Mechanical Code are: 1103.1.1, Table 1103.1.1, Table 1104.1, 1104.2, 1104.4 - 1104.9.4, 1105.1, 1105.12.1, 1106.2, 1106.2.2 - 1106.2.9.1, 1106.4 - 1106.11.11.4, Figure 1106.11.11.4(1), Figure 1106.11.11.4 (2), 1107.1.7.1 - 1107.1.7.3, 1107.1.9, 1108.3, 1108.4, 1112.11.1 and 1115.5.
<b>Chapter 13– Fuel Gas Piping</b>				
	x	1301.1	[OSFM] Applicability to fuel oil piping.	Added language to require that fuel oil piping connected to internal combustion engines and gas turbines be installed in accordance with NFPA 37.
<b>Chapter 16– Stationary Power Plants</b>				
	x	1602.0, 1602.1, 1602.1.1, 1602.2.	[OSFM] Liquid Fueled engines and gas turbines	Amended to add liquid fueled engines and gas turbines to the subject matter of Section 1602.0
<b>Chapter 17– Reference Standards</b>				
	x	N/A	[OSFM] AHRI 700-2017a	Amended referenced section numbers AHRI 700-2017a

**2022 California Mechanical Code -Part 4  
Significant Changes for the Intervening Code Adoption Cycle  
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New	Change	Code Section	Code Topic	Revision and Remarks
x		N/A	[OSFM] ASHRAE 15 and 34 (2022); ASHRAE 15 and 34 (2022); NFPA 37-2018; NFPA 409-2022; UL 60335-2-40-2022; UL 60335-2-89-2021	Adopted the latest edition of ASHRAE 15 and 34 (2022). Adopted the latest edition of NFPA 37-2018 Adopted the latest edition of NFPA 409-2022 Adopted the latest edition of UL 60335-2-40-2022 Adopted the latest edition of UL 60335-2-89-2021



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<b>Chapter</b>	<b>Title</b>
1	Administration
2	Definitions
3	General Regulations
4	Plumbing Fixtures and Fixture Fittings
5	Water Heaters
6	Water Supply and Distribution
7	Sanitary Drainage
8	Indirect Wastes
9	Vents
10	Traps and Interceptors
11	Storm Drainage
12	Fuel Gas Piping
13	Health Care Facilities - Med Gas and Med Vac Systems
14	Firestop Protection
15	Alternate Water Sources for Nonpotable Water Apps.
16	Nonpotable Rainwater Catchment Systems
17	Referenced Standards

**2022 California Plumbing Code  
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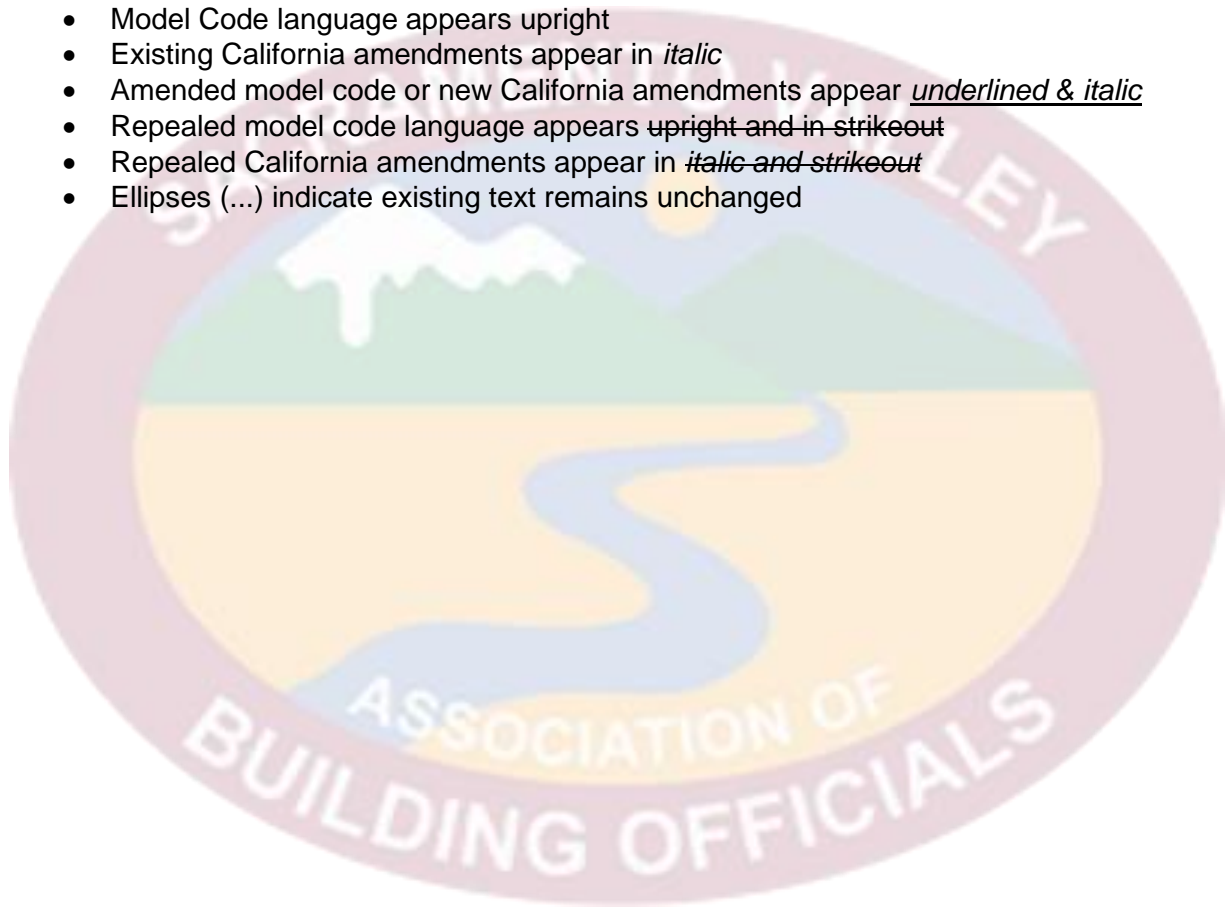
**Summary**

Significant Changes Include:

- Example

**LEGEND for EXPRESS TERMS (Based on model codes - Parts 2, 2.5, 3, 4, 5, 9, 10)**

- 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



**2022 California Plumbing Code  
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New	Change	Code Section	Code Topic	Revision and Remarks
<b>Chapter 1</b>				
			No Changes to Chapter 1	
<b>Chapter 2</b>				
	*	209.0	Definition of Gray Water System	<b>Gray Water System [BSC-CG].</b> A system designed to collect gray water <del>to be treated on-site for reuse or distribution to an irrigation or disposal field.</del> A gray water system may include, on-site treated nonpotable water devices or equipment, tanks, valves, filters, pumps or other appurtenances along with piping and receiving landscape.
*		218.0	Definition of a Privacy Compartment	<b>Privacy Compartment: [BSC]</b> <u>A compartment enclosing a water closet or urinal provided with floor-to-ceiling pre-manufactured panels, continuous brackets at abutting panels, and a floor-to-ceiling door with continuous hinges and full height astragals. Privacy compartments may also be constructed with full-height walls and door with head jamb casing.</u>
<b>Chapter 3</b>				
			No changes to Chapter 3	
<b>Chapter 4</b>				
	*	422.1.1	Fixture Calculations	<b>422.1.1 Fixture Calculations.</b> The minimum number of fixtures shall be calculated at 50 percent male and 50 percent female based on the total occupant load. Where information submitted indicates a difference in the distribution of the sexes such information shall be used to determine the number of fixtures for each sex. Once the occupancy load and occupancy are determined, Table 422.1 shall be applied to determine the minimum number of plumbing fixtures required. Where applying the fixture ratios in Table 422.1 results in fractional numbers, such numbers shall be rounded to the next whole number. For multiple occupancies, fractional numbers shall be first summed and then rounded to the next whole number. <b>[BSC]</b> <u>For toilet facilities designed for use by all genders, the minimum number of fixtures shall be the aggregate calculated at 50 percent female and 50 percent male in accordance with Table 422.1. Where multi-user all-gender facilities are provided in lieu of or in addition to separate men's and women's facilities, the total number of fixtures</u>

**2022 California Plumbing Code  
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New	Change	Code Section	Code Topic	Revision and Remarks
				<p><i>collectively shall be used to determine the number of fixtures provided in an occupancy. The substitution of a water closet for each urinal shall be permitted provided the total number of fixtures installed complies with Table 422.1.</i></p> <p>Adds provisions for all gender restroom fixture calculations.</p>
*		422.1.2	Family or Assisted-Use Toilet and Bathing Facilities	<p><b>422.1.1 422.1.2 Family or Assisted-Use Toilet and Bathing Facilities.</b> Where family or assisted-use toilet and bathing rooms are required, in applicable building regulations, the facilities shall be installed in accordance with those regulations.</p>
	*	422.2	Separate Facilities	<p><b>422.2 Separate Facilities.</b> Separate toilet facilities shall be provided for each sex.</p> <p><b>Exceptions [Not adopted for OSHPD 1, 2, 3, 4, &amp; 5]:</b></p> <p>(1) Residential installations.</p> <p>(2) In occupancies with a total occupant load of 10 or less, including customers and employees, one toilet facility, designed for use by no more than one person at a time, shall be permitted for use by both sexes.</p> <p>(3) In business and mercantile occupancies with a total occupant load of 50 or less including customers and employees, one toilet facility, designed for use by no more than one person at a time, shall be permitted for use by both sexes.</p> <p>(4) <u><b>[BSC] Separate facilities shall not be required where rooms have fixtures designed for use by all genders and the water closets are installed in privacy compartments. Urinals, when installed, shall be located in a privacy compartment or separate private area. Each compartment door shall be lockable from the inside of the compartment, with a door locking device that is readily distinguishable as locked from the outside of the compartment. Privacy compartments and doors which are not full height or floor to ceiling may be permitted by the enforcing agency.</b></u></p>
<b>Chapter 5*</b>				
			No changes to Chapter 5	
<b>Chapter 6</b>				



**2022 California Plumbing Code  
Significant Changes  
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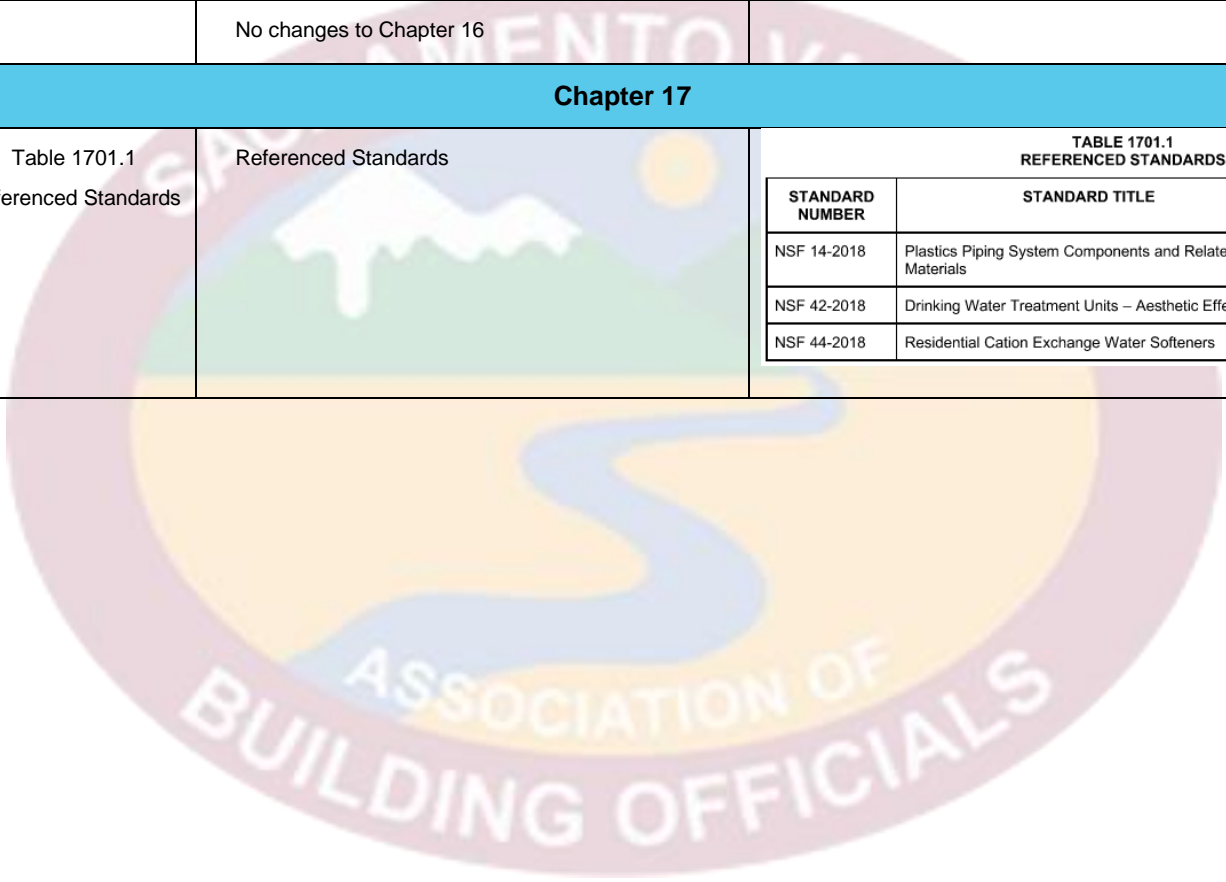
New	Change	Code Section	Code Topic	Revision and Remarks
	*	604.2	Lead Content	<p><b>604.2 Lead Content.</b> The maximum allowable lead content in pipes, pipe fittings, plumbing fittings, and fixtures intended to convey or dispense water for human consumption shall be not more than a weighted average of 0.25 percent with respect to the wetted surfaces of pipes, pipe fittings, plumbing fittings, and fixtures. For solder and flux, the lead content shall be not more than 0.2 percent where used in piping systems that convey or dispense water for human consumption.</p> <p><i>Note: See Sections 116875 and 116876 of the Health and Safety Code for the maximum lead content of pipes, pipe or plumbing fittings, or fixtures intended to convey or dispense water for human consumption.</i></p> <p><b>Exceptions:</b> ... (No change to 2022 CPC)</p>
	*	605.9.1	Fittings	<p><b>605.9.1 Fittings.</b> Fittings for PEX tubing shall comply with the applicable standards referenced in Table 604.1. PEX tubing that complies with ASTM F876 shall be marked with the applicable standard designation for the fittings, specified by the tubing manufacturer for use with the tubing. <i>Brass fittings used with PEX tubing shall meet or exceed NSF 14-2009 standards to prevent dezincification and stress crack corrosion. [OSHPD 1, 1R, 2, 3, 4 &amp; 5] Installation and use of PEX tubing shall be in accordance with manufacturer's standards. PEX piping shall not be used for any application that would result in noncompliance with any provisions of the California Building Standards Code.</i></p>
<b>Chapter 7</b>				
			No changes to Chapter 7	
<b>Chapter 8</b>				
			No changes to Chapter 8	
<b>Chapter 9</b>				
			No changes to Chapter 9	
<b>Chapter 10</b>				

**2022 California Plumbing Code  
Significant Changes  
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Effective 07/01/2024**

New	Change	Code Section	Code Topic	Revision and Remarks
			No changes to Chapter 10	
<b>Chapter 11</b>				
			No changes to Chapter 11	
<b>Chapter 12</b>				
			No changes to Chapter 12	
<b>Chapter 13</b>				
			No changes to Chapter 13	
<b>Chapter 14</b>				
			No changes to Chapter 14	
<b>Chapter 15</b>				
	*	1509.1	Signage for Commercial, Industrial, Institutional and Residential Restroom Signs	<p><b>1501.9.1 Commercial, Industrial, Institutional, and Residential Restroom Signs.</b> A sign shall be installed in restrooms in commercial, industrial, and institutional occupancies <i>and in residential common use areas</i> using <del>reclaimed-</del> (recycled) water and on-site treated <i>nonpotable</i> gray water, for water closets, urinals, or both. <i>Signs shall comply with all applicable requirements of the California Building Code.</i> Each sign shall contain 1/2 of an inch (12.7 mm) letters of a highly visible color on a contrasting background. The location of the sign(s) shall be such that the sign(s) are visible to users. The location of the sign(s) shall be approved by the Authority Having Jurisdiction and shall contain the following text:</p> <p>TO CONSERVE WATER, THIS BUILDING USES <i>ON-SITE TREATED NONPOTABLE GRAYWATER</i> TO FLUSH TOILETS AND URINALS.</p>

**2022 California Plumbing Code  
Significant Changes  
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New	Change	Code Section	Code Topic	Revision and Remarks																				
<b>Chapter 16</b>																								
			No changes to Chapter 16																					
<b>Chapter 17</b>																								
	*	Table 1701.1 Referenced Standards	Referenced Standards	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="4" style="text-align: center;">TABLE 1701.1 REFERENCED STANDARDS</th> </tr> <tr> <th style="text-align: center;">STANDARD NUMBER</th> <th style="text-align: center;">STANDARD TITLE</th> <th style="text-align: center;">APPLICATION</th> <th style="text-align: center;">REFERENCED SECTIONS</th> </tr> </thead> <tbody> <tr> <td>NSF 14-2018</td> <td>Plastics Piping System Components and Related Materials</td> <td>Miscellaneous</td> <td>301.2.3, 604.1, <u>605.9.1</u></td> </tr> <tr> <td>NSF 42-2018</td> <td>Drinking Water Treatment Units – Aesthetic Effects</td> <td>Appliances</td> <td>611.1</td> </tr> <tr> <td>NSF 44-2018</td> <td>Residential Cation Exchange Water Softeners</td> <td>Appliances</td> <td>611.1</td> </tr> </tbody> </table>	TABLE 1701.1 REFERENCED STANDARDS				STANDARD NUMBER	STANDARD TITLE	APPLICATION	REFERENCED SECTIONS	NSF 14-2018	Plastics Piping System Components and Related Materials	Miscellaneous	301.2.3, 604.1, <u>605.9.1</u>	NSF 42-2018	Drinking Water Treatment Units – Aesthetic Effects	Appliances	611.1	NSF 44-2018	Residential Cation Exchange Water Softeners	Appliances	611.1
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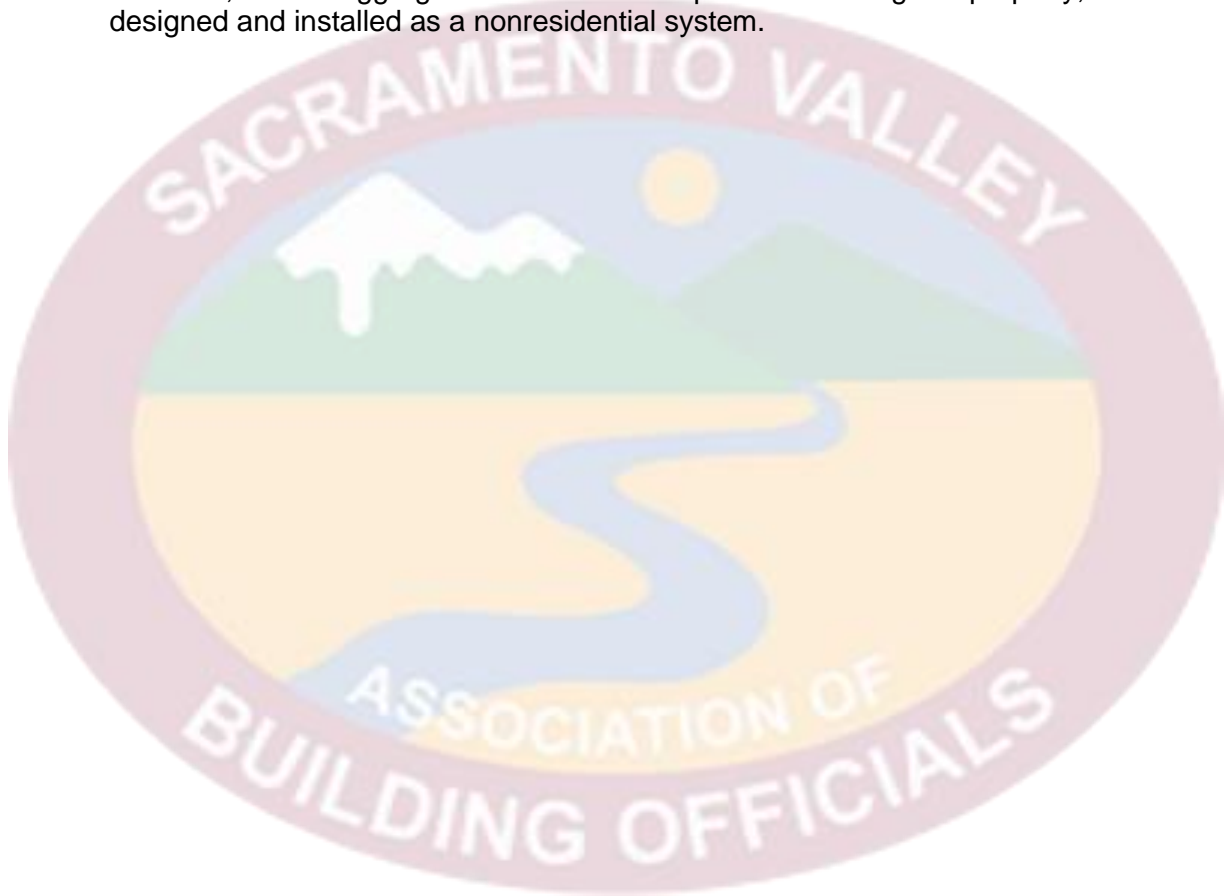
<b>Chapter</b>	<b>Title</b>
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5	Fire Service Features
6	Building Services and Systems
8	Interior Finishes
9	Fire Protection and Life Safety Systems
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12	Energy Systems
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**Summary**

Significant Changes Include:

- Occupancy Group I-2.1 removed in conjunction with CBC change.
- New provision for elevator hoist-way fire detection in CFC 907.3.3.1
- CFC 1207.11: New table of limits for Group R-3 and R-4 ESS ratings at given locations, and an aggregate 600kWh hour cap on ESS on a given property, unless designed and installed as a nonresidential system.



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New	Change	Code Section	Code Topic	Revision and Remarks
<b>Chapter 1</b>				
	x	1.11.1	SFM-Office of the State Fire Marshal	State-occupied buildings: Properties leased by UC is no longer listed; and the provision for local jurisdiction over those buildings not listed in Items 1 through 11 has been removed.
<b>Chapter 2</b>				
	x	202	Definitions	Multiple new terms added; I-2.1 Occupancy group removed where applicable.
<b>Chapter 4</b>				
	x	405	Emergency Evacuation Drills	Group I-1, Condition 2 removed and replaced with R-2.1.
<b>Chapter 5</b>				
	x	510.5	ERRC Installation requirements	Edit from NFPA 1221 to NFPA 1225.
<b>Chapter 6</b>				
	x	605.4	Fuel oil storage systems	References made to NFPA 31; and additional requirements for tanks and fuel oil systems for generators and fire pumps.
<b>Chapter 8</b>				
	x	Table 803.3	Interior Wall and Ceiling Finishes by Occupancy	Occupancy I-2.1 removed from table.
	x	804.3.3.2	Minimum critical radiant flux	Occupancy I-2.1 removed.
	x	805	Furniture and mattresses, heat release rate	References updated to CA Tech Bulletins 116 and 117 (was 133).
	x	807	Decorative Materials	Occupancy I-2.1 removed.

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New	Change	Code Section	Code Topic	Revision and Remarks
<b>Chapter 9</b>				
	x	903.2	Automatic Sprinklers required for Groups A-2, A-3, E, and M occupancies	Items 4, 4, 5, and 4, respectively, amended to read "...by fire walls of <b>NOT</b> less than four-hour fire resistance rating..."
	x	903.3.2	Quick-response and residential sprinklers	Item 2 requiring sprinklers in all spaces in smoke compartments with gas appliances in I-2 occupancies removed.
	x	907.2.3	Fire Alarm and Detection in Group E occupancies	Amended to remove requirement for manual fire alarm system.
	x	907.2.6.2	Fire alarm and Detection in Group I occupancies	Removed I-2.1 occupancy.
	x	907.2.9.3	Fire alarm and detection in Group R occupancies	Language amended to include detectors compliant with UL268. Additional clarifying language related to activation.
	x	907.2.13	Fire alarm and detection, high-rise and I-2 occupancies	Exception 6 modified to remove I-2.1 occupancies.
x		907.3.3.1	Elevator hoist-way fire detection	New section for hoist-way fire detection.
	x	907.5	Occupant notification	Updates made to remove I-2.1 from various sections.
	x	907.5.2.3.1	Visible alarms	Four additional public areas added to spaces requiring visible alarms: <ul style="list-style-type: none"> <li>• Shared office rooms used by two or more persons.</li> <li>• Normally occupied rooms used by two or more persons</li> <li>• Normally occupied storage areas</li> <li>• Medical exam rooms in MOB's.</li> </ul>
	x	909.5.3	Opening protection	Removed references to I-2.1 occupancy.

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New	Change	Code Section	Code Topic	Revision and Remarks
<b>Chapter 10</b>				
	x	All		Removed references to I-2.1 occupancy throughout.
x		1009.2, Item 11	Egress components	Added "safe dispersal areas" to list of components of egress system.
	x	1010.1.1	Size of doors	Removed reference to I-2.1, added language, "I-2 or <b><i>an ambulatory care facility...</i></b> "
	x	1010.2.4, Item 2	Locks and latches	Revised to reference Groups I-2 and R-2.1
	x	1010.2.13.1, Item 1	Delayed egress locking system	Additional requirements added for delayed egress systems.
	x	Table 1017.2	Exit Travel Distance	Reference to Section 422.3.4 added to Footnote A for exit travel distance in ambulatory care facilities.
	x	1026.4.1	Horizontal exits, capacity	Reference to Group I-2.1 removed. Added Group B ambulatory care facilities.
<b>Chapter 11</b>				
	x	All		Removed references to I-2.1 occupancy throughout.
x		1105.12	Group I-2 separations between construction areas	New section. Requirements for separating areas under construction from occupied space.
<b>Chapter 12</b>				
x		1203.1.3.1	Combustion engines and gas turbines.	New requirements for the installation of combustion engines and gas turbines. Installation must comply with CBC 442 and NFPA 37.
	x	1203.1.11	High-rise and Group I-2...	Removed reference to I-2.1.
x		1207.11.4	Energy Ratings	New table added to this section limiting ESS ratings in various locations, and capping aggregate rating on the property to 600 kWh.



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New	Change	Code Section	Code Topic	Revision and Remarks
<b>Chapter 33</b>				
x		3305.9.1	Group I-2 separations	New section referring back to 1105.12 for separations between construction and occupied areas.
x		3307.2.1	Flammable Gases, pipe cleaning and purging	New exception 4 added for refrigerant piping systems, requiring compliance with CMC instead of CFC.
<b>Chapter 49</b>				
x		4911	Model Ordinance	Model ordinance added.
<b>Chapter 50</b>				
	x	5003.1.1	Maximum allowable quantity per control area	Exception added for medical gases in I-2 occupancies.
	x	Table 5003.1.1(1)	Max. allowable quantity per control area	Flammable gas section expanded; Footnote r added.
	x	Table 5003.1.1(3)	Max. allowable quantity per control area	Flammable gas section expanded.
	x	Table 5003.8.2	Detached Building Required	Unstable reactives and water reactives line items updated to require a detached building for 1 ton or more of Class 3; and 25 tons or more of Class 2, respectively.
x		5003.8.3.5.4	Flammable Gas	New section for Category 1B flammable gas.
	x	5003.11	Maximum allowable quantity for Group M storage and Group S storage	Extensive edits and revisions. Additional review required to understand full scope of revisions.
<b>Chapter 57</b>				
	x	5704.2	Storage	Exception added for tanks connected to building heating systems installed per CFC 605.4.

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New	Change	Code Section	Code Topic	Revision and Remarks
<b>Chapter 80</b>				
	x	ASHRAE	Safety Std. for Refrigeration Systems	ASHRAE 15-2022 now referenced (was 15-2019)
	x	ASTM	E108 – Fire tests for roof coverings	2020a now referenced.
	x	CA	Tech Bulletins 116 and 117	These replaced Tech Bulletin 133
x		NFPA	22-18 Standard for Water Tanks for Private Fire Protection	New section
	x	NFPA	24-22 – Private fire service mains.	Updated from 24-19
x		NFPA	1225-22	Standard for ERRCS, replaces 1221-19.

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5A	[OSHPD] Prescriptive Compliance Method
6	Classification of Work
7	Alterations – Level 1
8	Alterations – Level 2
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12	Historic Buildings (Not Adopted)
13	Performance Compliance Methods. (Not adopted by the State of California – available for local adoption.)
14	Relocated or Moved Buildings
15	Construction Safeguards
16	Referenced Standards
A1	Seismic Strengthening Provisions for Unreinforced Masonry Bearing Wall Buildings
A2	Earthquake Hazard Reduction in Existing Reinforced Concrete and Reinforced Masonry Wall Buildings with Flexible Diaphragms
A3	Prescriptive Provisions for Seismic Strengthening of Cripple Walls and Sill Plate Anchorage of light, wood-framed Residential Buildings.
A4	Earthquake Risk Reduction in Wood-Framed Residential Buildings with Soft, Weak or Open Front Walls.

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Chapter	Title
A5	Referenced Standards
B	Supplementary Accessibility Requirements for Existing Buildings and Facilities.
C1	Gable End Retrofit for High-wind Areas.
C2	Roof Deck Fastening for High-Wind Areas
D	Board of Appeals
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# 2022 California Existing Building Code Significant Changes for the Intervening Code Adoption Cycle Effective 07/01/2024

## Summary

The California Existing Building Code is intended to trigger essential upgrades to the life safety of the building that are reasonable and possibly more affordable. This provides incentives to Owners to make necessary renovations in order to maintain the viability of their buildings.

As several of these chapters are new to the Mid-cycle updates, the summary below is significantly expanded from what would normally be discussed for mid-cycle updates.

Significant Changes Include:

- The previously adopted California Existing Building Code only allowed the Prescriptive Compliance Method of Chapter 5.
- The CEBC has been expanded to now permit work to be preformed under the Work Area Method.
  - This method is only approved for projects regulated by the California State Fire Marshal.
  - HCD has committed to adopt the same or similar language for the 2025 CEBC.
- Chapter 13 – Performance Compliance Method has not been adopted by the State of California, but it is available for adoption by local jurisdictions.

3 primary OPTIONS

- Option 1 – 301.1.1 Prescriptive Method
  - Follow Chapters 1, 2, 3, 4, & 15
  - Ignore Chapters 5-14
- Option 2 – Work Area Method
  - Follow Chapters 1, 2, 3, & 15.
  - As directed by Chapter 5, follow Chapters 6-13
- Option 3 – Performance Method. The performance compliance method was included in Chapter 34 of the CEBC until its removal in the 2015 edition of IBC (CHECK 34A in 2016 CBC).
  - Follow Chapters 1, 2, 3, 14, & 15.
  - Ignore Chapters 4-13 unless Chapter 14 directs otherwise.

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New	Change	Code Section	Code Topic	Revision and Remarks
<b>Chapter 1 – Scope and Administration</b>				
	x	1.11.1	SFM-Office of the State Fire Marshal	State-occupied buildings: Properties leased by UC is no longer listed; and the provision for local jurisdiction over those buildings not listed in Items 1 through 11 has been removed.
<b>Chapter 2 - Definitions</b>				
x		201.3	Added: [DSA-SS & DSA-SS/CC] Definitions of terms given in Section 4-207 or 4-314 of the California Administrative Code govern over those in Section 202.	Adds reference to specific sections of the CAC.
		202	WORK AREA. That portion or portions of a building consisting of all reconfigured spaces as indicated on the construction documents. Work area excludes other portions of the building where incidental work entailed by the intended work must be performed and portions of the building where work not initially intended by the Owner is specifically required by this code.	No change, but necessary to include the definition here to clarify some of the new provisions.
<b>Chapter 3 – Provisions for All Compliance Methods</b>				
	x	308.1		Revisions to requirements for Carbon Monoxide Detection.
	x	313.9		Updates to relocated sections of Code (i.e.: 313.5 is now 313.4; 313.5 is now 313.4)
x		317.2	"Alterations" added to the scope of this chapter.	
		318.1	Text added: Added: [DSA-SS & DSA-SS/CC] For the purposes of Section 317 through 323, definitions of terms given in Section 4-207 or 4-314 of the California Administrative Code govern over those in Section 202.	Adds reference to specific sections of the CAC.

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New	Change	Code Section	Code Topic	Revision and Remarks
<b>Chapter 3A - [OSHPD] Provisions for all Compliance Methods.</b>				
<b>Chapter 4 - Repairs</b>				
			No changes	
<b>Chapter 4A - [OSHPD] Repairs</b>				
			No Changes	
<b>Chapter 5 – Prescriptive Compliance Method</b>				
	x	503.15	Refuge areas	Removed reference to I-1 occupancy.
<b>Chapter 5A [OSHPD] Prescriptive Compliance Method</b>				
	x	503A.16	Enhanced classroom acoustics	Section removed.
	x	503A.17	Locking arrangements in educational occupancies	Section removed.

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New	Change	Code Section	Code Topic	Revision and Remarks
<b>Chapter 6 – Classification of Work (NEW)</b>				
X			General: New Chapter that describes the various levels of alteration and general provisions	
X		601.1	Provides a pointer to Section 301.3.2 Work Area Compliance Method. "Alterations, additions and changes of occupancy complying with the applicable requirements of Chapters 6 through 12 of this code shall be considered in compliance with the provisions of this code.	Provides charging language for the Work Area Method.
X		601.2	Provides a pointer to the definition of Work Area in Chapter 2: Work Area: That portion or portions of a building consisting of reconfigured spaces as indicated on the construction documents. The work area excludes other portions of the building where incidental work entailed by the intended work must be performance and portions of the building where work not initially intended by the Owner is specifically required by this code.	As defined in Chapter 2, a "work area" is that area of all reconfigured spaces where work is occurring within the scope of a project. These areas are to be shown clearly on the construction documents. Work areas exclude other portions of the building where incidental work is on-going..
X		602.1	Defines Level 1 alterations: Level 1 alterations include the removal and replacement or the covering of existing materials, elements, equipment or fixtures using new materials, elements, equipment or fixtures that serve the same purpose. Section also indicates that Chapter 7 applies to Level 1 alterations.	Level 1 alterations are the most basic level of building alterations. This would include the removal and replacement or the covering of existing materials, elements, equipment, or fixtures. Example addition of a new roof to an existing building, replacing carpet, removing aluminum siding and replacing it with Hardie siding, and replacing an existing fire alarm system. Level 1 alteration does not include reconfiguring of existing spaces.
X		603.1	Defines level 2 alterations: Level 2 alterations include the addition or elimination of any door or window, the reconfiguration or extension of any system, or the installation of any additional equipment, and shall apply where the work area is equal to or less than 50 percent of the building area. Section also indicates that Chapter 7 applies to Level 2 alterations.	This level of alteration exceeds simple replacement and is focused on new installations and extensions of systems and situations where the building is being reconfigured. The Work area is less than or equal to 50% of the building. Not all level 2 alterations include "work areas."
X		604.1	Defines Level 3 alterations: Level 3 alterations apply where the work area exceeds 50 percent of the building area. Sections also indicate that Chapters 7, 8 and 9 apply to Level 3 alterations.	This level of alteration exceeds simple replacement and is focused on new installations and extensions of systems and situations where the building is being reconfigured. The work area exceeds 50% of the building area. Not all level 2 alterations include "work areas."
X		605.1	Provides a pointer to the definition of Change of Occupancy in Chapter 2: Any of the following shall be considered a change of occupancy where the current CBC requires a greater degree of safety, accessibility, structural strength, fire protection, means of egress,	A change of occupancy in an existing structure may change the level of inherent hazards that the code was initially intended to address. Note that the "Change of Occupancy" definition both changes in occupancy classification and, in essence, change of use. "Change of use is defined in Section 202. This is done so that the applicable code requirements adequately address the specific



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New	Change	Code Section	Code Topic	Revision and Remarks
			ventilation, or sanitation than is existing in the current building or structure: Any change of occupancy classification of a building or structure.	hazards of the new occupancy. For example, the change from an existing mercantile occupancy to a business occupancy renders all Group B provisions applicable to all portions of the structure where the occupancy has changed.
		605.2	Any change in the purpose of, or a change in the level of activity within a building or structure. Section also indicates that Chapter 10 applies to Change of Occupancy.	This section indicates compliance with Chapter 10 for changes of occupancy. Chapter 10 contains provisions frequently used for existing structures since th occupancy in a building or structure often changes during the life of a building. As discussed under Section 605.1 the definition of "Change of Occupancy" and "Change of Use are critical to the application of Chapter 10.
X		606.1	Provides a pointer to the definition of Addition in Chapter 2: An extension or increase in floor area, number of storis, or height of a building pr structure. Section also indicates that Chapter 11 applies to additions.	Any project that would increase the floor area, number of stories, or height of the building qualifies an an addition. Additions are essentially treated as new construction.
<b>Chapter 7 Alterations – Level 1 (NEW)</b>				
x		701.1	Scope: Level 1 alterations as described in Section 602 shall comply with the requirements of this chapter.	Level 1 alterations are described in Section602 as the type of alteration that includes the removal and replacement or the covering of existing materials and elements.
x		701.2	In existing buildings or portion thereof shall not be altered such that the building becomes less safe than its existing condition.	The current level of safety or level of compliance with regulatory provisions in a building, in general, is not allowed to be reduced, regardless of the type of work taking place in a building For example, where a class B interior wall finish in an exit passageway, it is not permitted to replace it with a Class C finish. The exception describes the only situation where a reduction in the level of safety may be reduced where the existing finish exceeds the minimum code requirements.
X		702.1 - 702.3	Provides that new interior finishes, flooring materials and miscellaneous trim comply with CBC Chapter 8.	
X		702.4 - 702.6	Provides requirements for replacement windows in R2 and R3 occupancies. Includes emergency escape and rescue openings and fall protection.	
X		702.7	Provides that new work comply with the applicable provisions of the CBC, CEC, CMC, and CPC.	
X		703.2	Provides guidance for maintaining and/or replacing existing fire alarm appliances.	
X		703.3	Indicates that the on-site fire protection complies with CFC and CBC Chapter 33.	
X		Section 704	Requires that existing means of egress be maintained and not reduced. Also includes provisions for locking arrangements in E occupancies.	

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New	Change	Code Section	Code Topic	Revision and Remarks
X		Section 705	Provides guidance for reroofing.	
X		Section 706	Provides guidance for structural work when equipment is replaced of the building is reroofed.	
<b>Chapter 8 – Alterations – Level 2 (NEW)</b>				
X		801.1 Scope	Specifically exempt reconfiguration that is exclusively the result of accessibility requirements of Section 306.7.1 shall be permitted to comply with Chapter 7 – Level 1 alterations.	
X		801.2	Level 2 alterations shall also comply with the requirements for Level 1 alterations.	
X		801.3	Requirements related to work area are not applicable where Level 2 alterations are limited solely to: <ul style="list-style-type: none"> <li>• Mechanical, electrical, fire protection systems</li> <li>• The abatement of hazardous materials</li> <li>• Windows, hardware, operating controls, electrical outlets and signs.</li> <li>• Alterations where the primary purpose is increasing accessibility.</li> </ul>	
X		801.4	New construction elements, components, systems and spaces shall comply with the CBC. Exceptions: <ul style="list-style-type: none"> <li>• Light and air for Windows</li> <li>• Newly installed electrical equipment (see Section 806)</li> <li>• Dead-end corridor length (See section 804.7)</li> <li>• Minimum ceiling height in occupiable spaces and corridors: 7-feet</li> <li>• Escalator width in below-grade transportation stations.</li> <li>• Structural members may comply with alternate design criteria (see Section 302).</li> </ul>	
X		802.1	Requirements are limited to the work area in which the level 2 alterations are being performed and apply to area beyond the work area where specified.	
X		802.2.1	Provides guidance on requirements for existing vertical openings connecting two or more floors.	

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X		802.2.3	Where the work area exceeds 50% of any floor area, stairways shall be enclosed, with exceptions.	
X		802.3	Requires smoke compartmentalization where the work area is used for sleeping rooms for more than 30 occupants in I-2 Occupancies.	
X		802.4 Exception	Permits fire-retardant treatment of interior finishes that do not comply with CBC Chapter 8. Where the work area exceeds 50% of the floor area, treatment is required for finishes in common-use areas.	
X		802.5	Guards complying with CBC are required to be provided where no guard is present or where the existing guard is judged to be in danger of collapsing.	
X		802.6	Where approved by the code official, buildings where an automatic sprinkler system is installed (NFPA 13, NFPA 13R) Provides a process to review the required levels of protection with and without a sprinkler system (NFPA 13 or NFPA 13R) has been added and is now sprinklered throughout, the required fire-resistance-ratings of building elements and materials shall be permitted to meet the requirements of the current building code. The building is required to meet the other requirements of the CBC.	
X		803.1	For level 2 alterations, the requirements for adding fire sprinklers shall be limited to the work area.	
X		803.1.1	Where an approved fire sprinkler is installed throughout the entire story, the fire resistance-rating for the corridor shall be permitted to be reduced in accordance with the CBC. To apply the automatic sprinkler system is required for the stairway landings serving the story and the intermediate landings directly below.	
X		803.2	An automatic sprinkler system shall be provided in accordance with CBC and CFC Section 903.	
X		803.4	Fire alarm system shall be installed in accordance with CFC Sections 907 and 1103.7. Such systems (new or existing) shall be maintained.	
<b>Chapter 9 – Alterations – Level 3 (NEW)</b>				
X		901.1	Scope: this chapter applies to alterations that exceed 50% of the building area.	

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New	Change	Code Section	Code Topic	Revision and Remarks
X		901.2	<p>Compliance. In addition to the provisions of this chapter, work shall comply with the requirements of Chapters 7 [Alterations – Level 1] and 8 [Alterations – Level 2]. The requirements of Sections 802 [building elements and materials], 803 [fire protection], 804 [means of egress] and 805 [structural] shall apply within all work areas whether or not they include exit and corridors shared by more than one tenant and regardless of the occupant load.</p> <p>EXCEPTION: Buildings in which the reconfiguration of space affecting exits or shared egress access is exclusively the result of compliance with the accessibility requirements of Section 306.7.1 shall not be required to comply with this section.</p>	
X		903.1	Existing shafts and vertical openings. Existing stairways that are part of the means of egress shall be enclosed from the highest work area floor to, and including, the level of exit discharge and all floors below.	
X		903.3	The interior finish in exits serving the work area shall comply with Section 804.2 between the highest floor on which there is a work area and the floor of exit discharge.	
X		904.1	An automatic sprinkler system shall be provided in accordance with Section 903 of the California Building and California Fire Codes.	
X		904.2	<p>Fire alarm and detection shall be provided as required for new construction in accordance with Section 907 of the California Building Code as required for new construction in accordance with the California Fire Code Sections 907 and 1103.7</p> <p>Existing fire alarms shall be maintained.</p>	
X		905.2	Means of egress from the highest work area floor to the floor of exit discharge shall be provided with artificial light in accordance with CBC requirements.	
X		905.3	Means of egress from the highest work area floor to the floor of exit discharge shall be provided with exit signs in accordance with CBC requirements.	
X		904.5	In buildings with elevator service, a two-way communication system shall be provided as required by the CBC.	

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New	Change	Code Section	Code Topic	Revision and Remarks
X		[BS] 906.2	Where work involves a substantial structural alteration, the lateral load-resisting system of the altered building shall be shown to comply with CBC Sections 1609 and 1613. Reduced seismic sources shall be permitted. EXCEPTIONS allowing small group R occupancies to have alteration based on the conventional light-frame construction methods in the CBC or CRC and where the alteration is only on the lowest story of the building, only the lateral loads in and below that story need to comply.	
X		[BS] 906.3	Seismic Design Category F: the structure of the altered building shall conform to CBC Sections 1609 and 1613. Reduced seismic forces are permitted.	
X		[BS] 906.4	Seismic Design Categories D, E, or F: Concrete or reinforced masonry buildings with flexible roof diaphragm shall include installation of wall anchors at the roof line. Unreinforced masonry buildings shall also include anchors at the floor lines with exceptions. Reduced seismic forces are permitted.	
X		[BS] 906.5	Seismic Design Categories C, D, E, or F: Unreinforced masonry bearing walls shall include wall anchors at the roof line with exceptions.	
X		[BS] 906.6	Seismic Design Categories C, D, E, or F: Unreinforced masonry parapets shall include bracing as required to reduce the reduced CBC-level seismic forces with exceptions.	
X		[BS] 906.7	Seismic Design Categories C, D, E, or F: Unreinforced masonry ppartitions and non structural walls adjacent to egress paths from the work area shall be anchored, removed, or altered to resist the out-of-plane seismic reduced CBC-level seismic forces with exceptions.	
<b>Chapter 10 – Change of Occupancy</b>				
		1001	Where there is a change of use or a change of occupancy classification or a partial change of occupancy, a Certificate of occupancy is required.	Section 1011.1 clarifies that change of occupancy classification includes a change of occupancy classification within a group as well as a change of occupancy classification from one group to a different group or where there is a change of occupancy within a space where there is a different fire protection system threshold within CBC Chapter 9 (Example: a large appliance store being converted to a Mattress Warehouse).
		1002.1	Where an existing building, or a part of a building undergoes a change of occupancy to one of the	

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			Special Occupancies listed in CBC Chapter 4, the building shall comply with all of the CBC Chapter 4 requirements for that occupancy.	
		1002.2.1	Where an existing building, or a part of a building undergoes a change of occupancy to one of the incidental uses listed in CBC Table 509.1 the incidental use, the building shall comply with Section 509 of the CBC applicable to the incidental use.	
		[BS] 1006.1	Structural elements carrying tributary loads from an area with a change of occupancy shall satisfy the requirements of CBC Section 1607 Design Loads for the areas of the new occupancy. Design loads for areas without a change of occupancy may remain. Exceptions for loads not more than 5% greater.	
		[BS] 1006.2 - 1006.3	Where the risk category is changed to a higher risk, the seismic and wind loads, the building shall satisfy the requirements of sections 1908, 1609, and 1630 as applicable with exceptions.	
		[BS] 1006.4	Any structure providing operational access to an adjacent structure assigned to Risk Category IV as the result of a change of occupancy shall satisfy the requirements of CBC 1608, 1609, and 1613. Full seismic forces shall be used. Where operational access to Risk Category IV is less than 10-feet from either an interior lot line or another structure, access protection from potential falling debris shall be provided.	
		1007.1	Electrical: When the occupancy is changed to one of the special occupancies identified in the ECE, the electrical wiring and equipment of the building or portion thereof shall comply with the applicable requirements of the CEC.	
		1007.2	Unsafe conditions shall be altered to comply with the CEC	
		1007.3	Where the occupancy of an existing building or part of a building is changed, electrical service shall be upgraded to CEC requirements.	
		1007.4	Where the new occupancy requires additional electrical receptacles, the area of change shall be upgraded to current CEC requirements.	

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		1008.1	If the kitchen exhaust or ventilation requirements for the new occupancy are different than existing, the system(s) shall be upgraded to current CBC requirements.	
		1011.2.1	Where there is a change of occupancy within a space and the CFC has a different fire protection system threshold in Chapter 9 of the CBC , a fire sprinkler system based on the new occupancy is required within the area of changed occupancy and areas of the building not separated by a fire wall from the changed occupancy.	
		1011.2.2	Where there is a change of occupancy within a space and the CFC has a different fire protection system threshold in Chapter 9 of the CBC, a fire alarm and detection system based on the new occupancy shall be in accordance with Chapter 11 and Section 907 of the CFC.	
		1011.3	In areas of the building undergoing a change of occupancy, interior finishes shall comply with the requirements of the CBC for the new occupancy classification.	
		1011.4	In Group E occupancies where the work area is a Level 3 alteration, enhanced classroom acoustics shall be provided in all classrooms with a volume of 20,000 cubic feet or less.	
		Table 1011.5	<p style="text-align: center;">TABLE 1011.5 MEANS OF EGRESS HAZARD CATAGORIES RELATIVE. HAZARD. 1 (HIGHEST). 2. 3. 4 5 (lowest)</p> <p style="text-align: center;">CLASSIFICATION H (NOT ALLWED) I-2; I-3; I-4 (not allowed) A; E; M; R-1; R-2; R-4 B; F-1; R-3; R-4; S-1 F-2; S-2; U</p>	Needs clarofication as R-4 is both hazard 3 and 4
		1011.5	<p>Where a change of occupancy classification is made to a higher-hazard category (per CEBC Table 1011,5), the means of egress shall comply with the requirements of CBC Chapter 10. Exceptions:</p> <ol style="list-style-type: none"> <li>1. Stairways shall be enclosed per applicable provisions of Section 903.1</li> <li>2. Existing stairways, including handrails and guards complying with Chapter 9 shall be permitted for continued use (subject to approval of the Code Official)</li> <li>3. Any replacement stair where the existing space does not permit</li> </ol>	





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			increases allowed for an automatic sprinkler system in CBC Section 504 are not used for the buildings.									
		1011.6.2	Where a change of occupancy is to a lesser or equal hazard category the height and area of the building shall be deemed acceptable.									
		1011.6.3	Where a change of occupancy is to. Higher hazard category, fire barriers in a mixed occupancy building shall comply with CBC requirements. Exception: 1-hour fir barriers may be existing wood lath and plaster in good condition or existing ½ inch thick gypsum board shall be acceptable.									
		Table 1011.7	<p style="text-align: center;">TABLE 1011.7 EXPOSURE OF ETERIOR WALLS HAZARD CATAGORIES</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">1 (highest)</td> <td style="width: 50%;">H</td> </tr> <tr> <td>2</td> <td>F-1; M; S-1</td> </tr> <tr> <td>3</td> <td>A; B; R; R</td> </tr> <tr> <td>4 (lowest)</td> <td>F-2; S-2; U</td> </tr> </table>	1 (highest)	H	2	F-1; M; S-1	3	A; B; R; R	4 (lowest)	F-2; S-2; U	
1 (highest)	H											
2	F-1; M; S-1											
3	A; B; R; R											
4 (lowest)	F-2; S-2; U											
		1011.7.1	Where a change of occupancy classification is made to a higher hazard category exterior walls shall have fire resistance and opening protectives as required by the CBC. Exception: A 2-hour ratig is allowed where the building does not exceed 3 stories in height and of Group A-2 and A-3 with an occupant load of 300 or less; B; F; M or S.									
		1011.7.2	Where a change of occupancy is to a equal or lesser-hazard, existing exterior walls, including openings, shall be accepted.									
		1011.7.3	Openings in exterior walls shall be protected as required by the CBC. Where openings in exterior walls are required to be protected due to FSD, the um of such openings shall not exceed 50 percent of the total are of the wall in each story. Exceptions: <ol style="list-style-type: none"> <li>1. Where CBC permits openings in excess of 50 percent.</li> <li>2. Rated openings are not required in Group R occupancies that do not exceed 3 stories in height and that are located not less than 3 feet from the lot line.</li> <li>3. Extrior opening protection is not required where an automatic sprinkler system is installed throughout.</li> </ol>									

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New	Change	Code Section	Code Topic	Revision and Remarks
			4. Exterior opening protectives are not required where the change of occupancy group is to an equal or lesser hazard.	
		1011.8.1	Vertical shafts shall be designed to comply with CBC requirements for Atriums or the requirements of this section.	
		1011.8.2	<p>Where a change of occupancy is to a higher hazard category (Table 1011.5) interior stairways shall be enclosed.</p> <p>Exceptions:</p> <ol style="list-style-type: none"> <li>1. Except for Group I, the enclosure shall not be required for openings serving only one adjacent floor and that are not connected with corridors or stairways serving other floors.</li> <li>2. Unenclosed existing stairways need not be enclosed in a vertical shaft if each story is separated by 1-hour horizontal assemblies and all exit corridors are sprinklered. The openings between the corridor and the occupant space shall have not fewer than one sprinkler head above the openings on the tenant side. The sprinkler system is permitted to be served from the domestic water supply system provided the system has adequate pressure, capacity and sining for the combined domestic and sprinkler requirements.</li> </ol>	
		1011.3	<p>Interior vertical shafts other than stairways, including elevator hoist ways and service or utility shafts shall be enclosed per the CBC where there is a change of use to a higher-hazard category.</p> <p>Exceptions:</p> <ol style="list-style-type: none"> <li>1. Existing 1-hour shaft enclosures shall be accepted where a higher rating is required.</li> <li>2. Vertical openings, other than stairways in other than Group I connecting less than 6 stories shall not be required to be enclosed where the entire building is provided with an automatic sprinkler system.</li> </ol>	
		1011.8.4	Openings into exiting vertical shafts shall be protected by 1-hour self-closing or closing on activation of a smoke detector opening protectives. Existing fusible link automatic door closing devices shall be permitted at all shafts except at stairways if the fusible link rating does not exceed 135 Degrees f.	

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New	Change	Code Section	Code Topic	Revision and Remarks
<b>Chapter 11 - Additions</b>				
		1101.1	Additions to existing buildings shall comply with the CBC for new construction but shall not require the existing building or structure to comply with codes for new construction except as required by this chapter. Where the addition impacts an existing building or structure, the result of the addition shall not put the existing building or structure shall not put the existing building out of compliance with the CBC or CRC. CBC Chapter 5 height and area limitations shall apply to the entire structure.	
		1101.2	Addition shall not create or extend any non-conformity in the existing building regarding accessibility, structural strength, fire safety, means of egress or the capacity of mechanical, plumbing or electrical systems.	
		1101.3	Repair or alteration work to the existing building shall comply with the applicable requirements for work as classified in the CEBC Chapter 6.	
		1101.4	Group E: enhanced classroom acoustics shall be provided in all classrooms in the addition with a volume of 20,000 cubic feet or less.	
		1102.1 1102.2	Height and area of the combined building cannot exceed the limits of CBC Chapter 5.	
		1102.3	Existing fire areas increased by the addition shall comply with CBC Chapter 9.	
		[BS]1103.1	If an addition and its related alterations causes more than 5% increase on a structural load-carrying element (design dead, live or snow load including drift effects) shall be replaced or altered as needed to carry the loads required by the CBC for a new structure. Any existing gravity load bearing structural element whose gravity load carrying capacity is decreased as part of the addition is considered altered and subject to the requirements of CEBC 805.2.. Any existing element that will form a part of the lateral load path for any part of the addition shall b considered to be an existing load-carrying element subject to the requirements of CEBC 1103.3. Exception: Group R with not more than 5 dwelling units	

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			where the existing building and its addition together comply with the conventional light-frame methods of the CBC or CRC,	
		[BS] 1103.2	<p>Where the addition is structurally independent of the existing structure, existing lateral load carrying structural elements shall be permitted to remain unaltered. Where the addition is not structurally independent, the existing structure and its addition acting together as a single structure shall meet the requirements of CBC Sections 1609 and 1613 using full seismic forces.</p> <p>Exceptions:</p> <ol style="list-style-type: none"> <li>1. Group R with not more than 5 dwelling units where the existing building and its addition together comply with the conventional light-frame methods of the CBC or CRC.</li> <li>2. Any existing lateral load-carrying structural element whose demand-capacity ratio with the addition considered is not more than 10% greater than its demand-capacity ignored shall be permitted to remain unaltered.</li> </ol>	
		[BS] 1103.3.1	<p>Flood hazard areas: For horizontal additions that are structurally interconnected to the existing building.</p> <ol style="list-style-type: none"> <li>1. If the addition and all other proposed work, when combined, constitute substantial improvement, the existing building and its addition shall comply with CBC 1612 or CRC R322.</li> <li>2. If the addition constitutes substantial improvement, the existing building and its addition shall comply with CBC 1612 or CRC R322.</li> </ol> <p>Flood hazard areas: for horizontal additions that are not structurally interconnected to the existing building:</p> <ol style="list-style-type: none"> <li>1. The addition shall comply with CBC 1612 or CRC R322.</li> <li>2. If the addition and all other proposed work, when combined, constitute substantial improvement, the existing building and its addition shall comply with CBC 1612 or CRC R322.</li> </ol>	
		[BS]1103.3.3	Flood hazard areas: For vertical additions and all other proposed work that, when combined constitute substantial improvement, the existing building and its addition shall comply with CBC 1612 or CRC R322.	

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		[BS] 103.3	Flood hazard areas: for a raise or extended foundation, if the foundation work and all other proposed work, when combined, constitute substantial improvement, the existing building and its addition shall comply with CBC 1612 or CRC R322.	
		[BS] 1103	Flood hazard areas: for a new foundation or replacement foundation the work shall comply with CBC 1612 or CRC R322.	
<b>Chapter 12 – Historic Buildings</b>				
			Not Adopted. See Title 24, Part 8 2022 California Historic Building Code.	
<b>Chapter 13 – Performance compliance methods</b>				
x			<p>This is a new Chapter that assesses multiple features of a Building for overall performance. The provisions of this chapter are intended to maintain or increase the current degree of public safety, health and general welfare in existing buildings while permitting, alteration, addition and change of occupancy without requiring full compliance with the Chapters 6 through 12, except where compliance with the prescriptive method of Chapter 5 or work area method of other provisions of the CEBC is specifically required in the chapter.</p> <p>This method is complicated and has not been adopted by the state of California but is available for local adoption.</p> <p>Thorough evaluation and description of the Chapter will follow in a separate report.</p>	

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<b>Chapter 14 – Relocated or Moved Buildings</b>				
			No mid-cycle changes.	
<b>Chapter 15 Construction Safeguards</b>				
			No mid-cycle changes.	
<b>Chapter 16 – Referenced Standards</b>				
			No mid-cycle changes.	
<b>APPENDIX A – Guidelines for the seismic retrofit of Existing Buildings</b>				
		Equation A103	Equation altered to read:  $V_{ml} = \frac{0.75 ( 0.75V_d + \frac{P_d}{A_n} )}{1.5}$	

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Appendix A6.1	Voluntary Standards for Health Facilities (OSHPD 1, 2 & 4)
History Note Appendix	

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## Summary

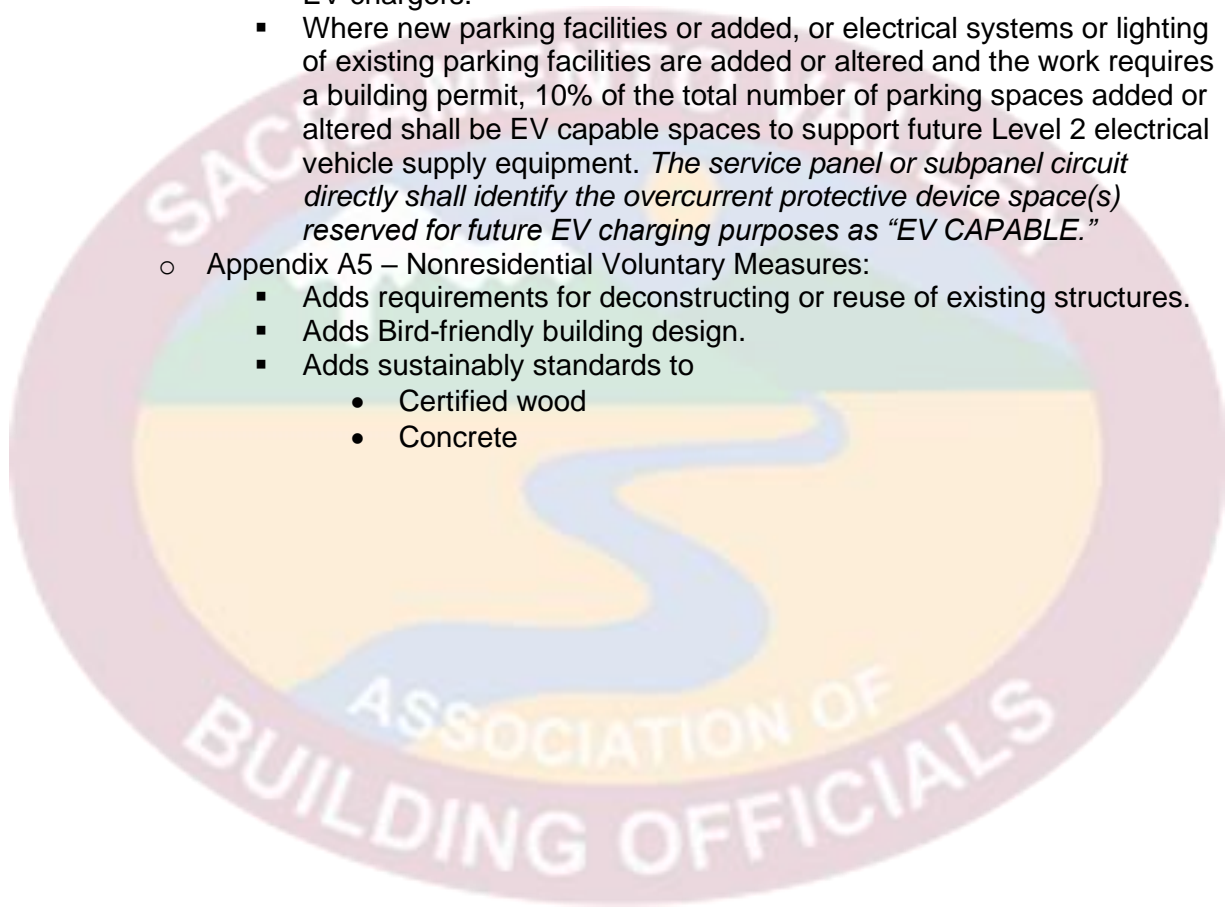
Significant Changes Include:

- Chapter 2 - Definitions:
  - Many new definitions have been added.
- Chapter 3 -Green Building:
  - Alterations and additions to existing parking facilities and buildings shall comply with Chapter 5 electric vehicle charging infrastructure.
- Chapter 4 – Residential Mandatory Measures:
  - Eliminates the distinction between Multifamily Dwellings and Hotels/Motels.
  - Dramatic increase of the number of chargers at new multifamily dwellings, hotels, and motels.
    - 40% to be low power Level 2 EVSE
    - 10% of total parking to be Level 2 charges (50% to be connected to J1772 chargers)
    - Spaces are required to be identified by signage or pavement markings according to CalTRANS standards.
- Chapter 5 – non-residential mandatory measures:
  - Alterations and additions to existing buildings with a combined floor area > 100,000 sf are required to comply with one of the following:
    - Maintain 45% minimum of the building’s primary structural elements.
    - Conduct a cradle-to-grave whole building life cycle assessment.
    - Product GWP compliance – prescriptive pat. Each product that is permanently installed and listed in CalGREEN Table 5.409.3 shall have a Type III environmental product declaration (EPW), either product specific or factory-specific.
  - EV changes:
    - No changes to the minimum number EV and EVCS spaces required.
    - Allows power allocation method
    - Spaces are required to be identified by signage or pavement markings according to CalTRANS standards.
    - Alterations: requires electric vehicle facilities complying with CalGREEN and CBC 11B be provided where the construction work includes an increase in the power supply to an electric service panel in additions or alterations as well as when solar carports are added to an existing parking facility.
  - New bicycle parking is required when existing buildings or parking lots are altered and the scope of construction includes an increase in power supply, a new photovoltaic system is installed.
- 
- Appendix A4 – Residential Voluntary Measures
  - Multifamily Dwellings, Hotels, and Motels:
    - Tier 1: new Option A for new multifamily dwellings, hotels and motels for 1) EV ready parking spaces with receptacles and 2) EV ready



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- parking spaces with EV charges.
- Tier 1: new Option B for multifamily dwellings for 1) EV ready parking spaces with receptacles and 2) EV ready parking spaces with EV chargers.
- Tier 2: new Option A for new multifamily dwellings, hotels and motels for 1) EV ready parking spaces with receptacles and 2) EV ready parking spaces with EV charges.
- Tier 1: new Option B for multifamily developments for 1) EV ready parking spaces with receptacles and 2) EV ready parking spaces with EV chargers.
- Where new parking facilities or added, or electrical systems or lighting of existing parking facilities are added or altered and the work requires a building permit, 10% of the total number of parking spaces added or altered shall be EV capable spaces to support future Level 2 electrical vehicle supply equipment. *The service panel or subpanel circuit directly shall identify the overcurrent protective device space(s) reserved for future EV charging purposes as “EV CAPABLE.”*
- Appendix A5 – Nonresidential Voluntary Measures:
  - Adds requirements for deconstructing or reuse of existing structures.
  - Adds Bird-friendly building design.
  - Adds sustainably standards to
    - Certified wood
    - Concrete



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<b>Chapter 1 – No Revisions</b>				
<b>Chapter 2</b>				
x		202	Definitions	Multiple new terms added
<b>Chapter 3</b>				
x		301.4.2.5	Mandatory Measures for Public Schools and Community Colleges	Alteration and additions to existing parking facilities shall comply with Section 5.106.5.6.4. Additions to existing parking facilities shall comply with Section 5.106.12.
x		301.4.2.6	Mandatory measures for Public Schools and Community Colleges	Alterations and additions to existing buildings shall comply with Sections 5.105.1, 5.106.5.6.2, 5.409 and 5.506.3.
<b>Chapter 4</b>				
	x	4.106.4	Electric Vehicle (EV) Charging for New Construction	Removed the wording “to facilitate future installation and use of EV chargers. Section now states: <i>New construction shall comply with Section 4.106.4.1 or 4.106.4.2. Electric Vehicle supply equipment (EVSE) shall comply with the California Electrical Code.</i>
x	x	4.106.4.2.2	Multifamily Development Projects with 20 or More Dwelling Units, Hotels and Motels with 20 or More Sleeping Units or Guestrooms	<ol style="list-style-type: none"> <li>1. EV ready parking spaces with receptacles               <ol style="list-style-type: none"> <li>a. Hotels and motels. 40% of the total number os spaces shall be equipped with low power Level 2 EV charging receptacles.</li> <li>b. Multifamily parking facilities. 40% of the total number of parking spaces shall be equipped with low power Level 2 EV Charing receptacles. EV charging receptacles required by this section shall be located in at least one assigned parking space per dwelling unit where assigned parking is provided but need not exceed 40% of the total number of assigned parking spaces provided on the site.</li> <li>c. Receptacle power source. EV charging receptacles in multifamily parking facilities shall be provided with a dedicated branch circuit connected to a dwelling unit’s electrical panel,</li> </ol> </li> </ol>

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				<p>unless determined as infeasible by the project builder or designer and subject to concurrence of the local enforcing agency.</p> <p>2. EV ready parking spaces with EV chargers.</p> <p>a. Hotels and motels. 10% of the total number of parking spaces shall be equipped with Level 2 EV chargers. At least 50% of the required EV chargers shall be equipped with J1772 connectors.</p> <p>b. Multifamily parking facilities. 10% of the total number of parking spaces shall be equipped with Level 2 EV chargers. At least 50% of the required EV chargers shall be equipped with J1772 connectors. Where common use parking or unassigned parking is provided, EV chargers shall be located in common use or unassigned parking areas and shall be available for use by all residents or guests.</p> <p>Where low power Level 2 EV charging receptacles or Level 2 EV chargers are installed beyond the minimum required, an automatic load management system (ALMS) may be used to reduce the maximum required electrical capacity to each space served by the ALMS. The branch circuit shall have a minimum capacity of 40 amps, and installed EV chargers shall have a capacity of not less than 30 amps.</p>
	x	4.106.4.2.2.1.2	Electrical Vehicle Charging Stations (EVCS) Spaces with EV Chargers Installed: Dimensions and Location	<p>Added language to item 3: <i>Surface slope for this EVCS space and the aisle shall not exceed 1 unit vertical in 48 units horizontal (2.083 percent slope) in any direction. These EVCS spaces shall also comply with at least one of the following:</i></p> <p>a. <i>The EVCS space shall be located adjacent to an accessible parking space meeting the requirements of the CBC, Chapter 11A, to allow use of the EV charger from the accessible parking space.</i></p> <p>b. <i>The EVCS space shall be located on an accessible route, as defined in the CBC, Chapter 2, to the building. <b>Exception:</b> EVCS designed and constructed in compliance with the CBC, Chapter 11B, are not required to comply with Section 4.106.4.2.2.1.1.</i></p>
	x	4.106.4.3	Electrical Vehicle Charging for Additions and Alterations of Parking Facilities Serving Existing Multifamily Buildings	<p>Where new parking facilities or added, or electrical systems or lighting of existing parking facilities are added or altered and the work requires a building permit, 10% of the total number of parking spaces added or altered shall be EV capable spaces to support future Level 2 electrical vehicle supply equipment. <i>The service</i></p>

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				<i>panel or subpanel circuit directly shall identify the overcurrent protective device space(s) reserved for future EV charging purposes as "EV CAPABLE."</i>
<b>Chapter 5</b>				
X		5.105.1	New Section added regulating Deconstruction and Reuse of Existing Buildings.	Large Building alterations and additions (combined 100,000 sf total area) are required to comply with one of three paths: <ol style="list-style-type: none"> <li>1. Reuse a minimum of 45% of the building's combined primary structural elements and existing building enclosure (windows, insulation and structurally unsound portions of the building are exempt. Documentation on the Permit Set is required. (5.015.2)</li> <li>2. Be subject to whole-building life cycle assessment (5.409.2).</li> <li>3. Be subject to Product GWP compliance – Prescriptive path (5.409.3)</li> </ol>
	X	5.106.5.3	Section now specifically identifies EV Capable, EV charging stations.	
	X	5.106.5.3.2	Requires EV Capable spaces and EV capable spaces with electric vehicle supply equipment (EVSE).	Requires EV Capable spaces to be provided with electric vehicle supply equipment to create EVCS in the number required by Table 5.106.5.3.1. Requires EVCS to be provided with Level 2 EVSE or DCFC as permitted in Section 5.106.5.3.2.1. At least one Level 2 EVSE shall be provided.
	X	Table 106.5.3.1	Minimum number of EV Capable and EV Capable with EVCS.	Editorial change to the bottom line. No change
	X	5.106.5.3.2.1.	DCFC EVSE (Direct Current Fast Charge Electric Vehicle Supply Equipment) may substitute for required equipment in Table 5.106.5.3.1.	Installation of a DCFC EVSE can replace five EVSE or five EVCS with Level 2 chargers required by Table 5.106.5.3.1.
	X	5.106.5.3.2.2	Low Power Level 2 Charging receptacles may substitute for required equipment in Table 5.106.5.3.1.	Installation of 2 low power Level 2 charging receptacles can substitute for one EVSE or one EVSE with Level 2 chargers required by Table 106.5.3.1.
	X	5.106.5.3.5	Signage at Electric Vehicle Charging Stations	Requires that Electric vehicle Charging Stations be signed in accordance with CALTrans Operations Policy Directive 13-01 or its successors.
X		5.106.5.3.6	Adds power allocation method for Electric vehicle Charging.	A new table 5.106.5.3.6 has been added that indicates the minimum Total kVA at 6.6 kVA and the total KVA required based on the number of arking spaces. Stations
X		5.106.5.4	New bicycle parking is required when existing buildings or parking lots are altered and the scope of construction includes an increase in power supply, a new photovoltaic system is installed.	New buildings and additions that have or add 10 or more tenant occupants shall provide secured bicycle parking equal to 5% of the new or added parking spaces.

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	X	5.106.5.3	Adds requirements for EV capable spaces, electric vehicle charging stations, and Electric vehicle charging stations power allocation method.	Adds pointers to specific requirements.
X		5.106.5.3.6	Defines the "Power Allocation Method" as an allowable alternate to previous requirements	
X		Table 5.106.5.3.6	New table that identifies the Minimum Total kVA @ 6.6kVA and total kVA required for any combination of charger types based on the number of vehicles served.	
X		5.106.5.4 5.106.5.4.1 5.106.5.4.2	Additions or alterations	Requires electric vehicle facilities complying with CalGREEN and CBC 11B be provided where the construction work includes an increase in the power supply to an electric service panel in additions or alterations as well as when solar carports are added to an existing parking facility.
X		Table 5.106.5.4.1	Table 5.106.5.4.1 is eliminated and replaced with Section 5.106.5.5.1	Eliminates table specific to "Grocery," "Retail," and "Warehouse." Provides that commercial projects comply with Section 5.106.5.1 and includes requirements for installation of infrastructure to support future electric vehicle charging equipment "in order to avoid future demolition when adding EV equipment and associated infrastructure.
X		Table 5.105.5.5.1	Provides requirements for additional supply capacity in panels serving Medium- and Heavy-Duty EVSE by facility type, building area and off-street loading spaces.	
X		5.106.5.6	Provides requirements for Electric Vehicle (EV) charging at public schools and community colleges.	
	X	5.401.1	Scope of Division 5.4 Material Conservation and Resource Efficiency	Add greenhouse gas (GHG) emission to the rationale of adopting this chapter.
X		5.409	Life Cycle Assessment	Add provisions for new buildings and additions where the total floor area exceeds 100,000 sf (50,000 for DSA-SS).
		5.410.2	Criteria for testing existing buildings	Note directing the AHJ to IAS IC 476 as the accreditation criteria for professionals performing Commissioning on buildings has been revised to direct the AHJ to criteria in the California Energy Code.

**Chapter 6 – No significant changes**

**Chapter 7 – No changes**

**Chapter 8 – Updated Forms**

**Appendix A4**

**2022 California Green Building Standards Code  
Significant Changes  
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New	Change	Code Section	Code Topic	Revision and Remarks
	x	A4.106.8	Electric Vehicle (EV) Charing for New Construction	New construction shall comply with <i>Section A4.106.8.1 or A4.106.8.2</i> , to facilitate the <i>installation and use</i> of EV ready spaces. (Notice the word “future” has been removed.)
	x	A4.106.8.2	New Multifamily Dwellings, Hotels and Motels	<i>Multifamily dwellings</i> replaces “multifamily development projects”.
	x	A4.106.8.2.1	Multifamily Dwellings, Hotels and Motels	<p>Tier 1: new Option A for new multifamily dwellings, hotels and motels for 1) EV ready parking spaces with receptacles and 2) EV ready parking spaces with EV charges.</p> <p>Tier 1: new Option B for multifamily dwellings for 1) EV ready parking spaces with receptacles and 2) EV ready parking spaces with EV chargers.</p> <p>Tier 2: new Option A for new multifamily dwellings, hotels and motels for 1) EV ready parking spaces with receptacles and 2) EV ready parking spaces with EV charges.</p> <p>Tier 1: new Option B for multifamily developments for 1) EV ready parking spaces with receptacles and 2) EV ready parking spaces with EV chargers.</p>
<b>Appendix A5</b>				
x	x	A5.105.1	Deconstruction and Reuse of Existing Structures	<p><i>Projects with the area limits specified shall comply with Section A5.105.2 to achieve Tier 1 or Tier 2 compliance.</i></p> <ol style="list-style-type: none"> <li>1. <i>Alteration(s) to existing building(s) where the combined altered floor area is 50,000 square feet or greater shall comply with either Section A5.105.2, Section A5.409.2 or Section A5.409.3.</i></li> <li>2. <i>Addition(s) to existing building(s) where the total floor area combined with the existing building(s) is 50,000 square feet or greater shall comply with either Section A5.105.2, Section A5.409.2 or Section A5.409.3.</i></li> <li>3. <i>Alteration(s) to existing building(s) where the aggregate floor area is less than 50,000 square feet shall comply with either Section 5.105.2, Section 5.409.2 or Section 5.409.3 for Tier 1 compliance and either Section A5.105.2.1, Section A5.409.2.1 or A5.409.3 Tier 1 requirements for Tier 2 compliance.</i></li> <li>4. <i>Addition(s) to an existing building where the total floor area combined with the existing building(s) is less than 50,000 square feet shall comply with</i></li> </ol>

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New	Change	Code Section	Code Topic	Revision and Remarks
				<p><i>either Section 5.105.2, Section 5.409.2 or Section 5.409.3 for Tier 1 compliance and either Section A5.105.2.1, Section A5.409.2.1 or A5.409.3 Tier 1 requirements for Tier 2 compliance.</i></p>
x	x	A5.105.2	Reuse of Existing Buildings	<p><i>Projects that include the reuse of an existing building shall meet the minimum requirements of Section A5.105.2.</i></p> <p><i>A5.105.2.1 Tier 1. An alteration or addition to an existing building shall maintain at least 75% combined of the existing building's primary structural elements (foundations; columns, beams, walls, and floors; and lateral elements) and existing building enclosure (roof framing, wall framing and exterior finishes). Window assemblies, insulation, portions of buildings deemed structurally unsound or hazardous, and hazardous materials that are remediated as part of the project shall not be included in the calculation.</i></p> <p><i>A5.105.2.2 Tier 2. An alteration or addition to an existing building shall maintain at least 75% combined of the existing building's primary structural elements (foundations; columns, beams, walls, and floors; and lateral elements) and existing building enclosure (roof framing, wall framing and exterior finishes). In addition, an alteration to an existing building shall maintain 30% of existing interior nonstructural elements (interior walls, doors, floor coverings, ceiling systems). Window assemblies, insulation, portions of buildings deemed structurally unsound or hazardous, and hazardous materials that are remediated as part of the project shall not be included in the calculation.</i></p> <p><i>A5.105.2.3 Verification of Compliance. Documentation shall be provided in the construction documents to demonstrate compliance with Section A5.105.2.</i></p>
x		A5.107	Bird-Friendly Building Design (see A5.107.1 through A5.107.3)	<p><i>A newly constructed building, or an alteration of an existing building that includes the addition or replacement of 50% or more of the exterior glazing, shall comply with the bird-friendly building design elements and features in Section A5.107.1 through A5.107.3 of the California Energy Code and the fire hazard severity zone regulations in Chapter 7A of the CBC.</i></p>
	x	A5.401.1	Scope	<p><i>Add to scope: greenhouse gas (GHG) emissions</i></p>
x		A5.405.2.1	Certified Wood Components – Sustainability Standards	<p><i>Provide wood products, for at least 50% of the projects permanently installed products, that have been certified by independent third parties and labeled as having been produced in compliance with the accepted principles of sustainable forest management. The use of recycled and/or recovered wood products does not need to be certified. Comply with one or more of the following certifications of</i></p>

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New	Change	Code Section	Code Topic	Revision and Remarks
				<p><i>wood sustainability:</i></p> <ol style="list-style-type: none"> <li>1. <i>Sustainable Forestry Initiative (SFI).</i></li> <li>2. <i>Forest Stewardship Council (FSC).</i></li> <li>3. <i>Program for the Endorsement of Forest Certification (PEFC).</i></li> <li>4. <i>American Forest Foundation’s Amercian Tree Farm System (ATFS).</i></li> <li>5. <i>Canadian Standards Association’s Sustainable Forest Management System Standards (CS Z809).</i></li> <li>6. <i>Manufacturer’s fiber procurement system that has been audited by an approved agency as compliant with the provisions of ASTM D7612 as a responsible certified source.</i></li> </ol>
x		A5.405.5.2.1.1.	Mix Design Equation	Newly added equation
x		A5.405.5.3	Concrete Manufacturer	New measures permitted in the manufacture of concrete, as approved by the Engineer of Record.
	x	A5.409.2	Scope (Life Cycle Assessment)	“Scope” replaces “General.” New 6-point list as related to newly constructed, additions and alterations.
x		A5.409.3	Product GWP Compliance – Prescriptive Path	
	x	A5.409.4	Whole Building Life Cycle Assessment of Additional Impacts	
x		A5.601.3.1	Prerequisites	<i>To achieve CALGreen tier status, a project must meet all of the mandatory measures in Chapter 5 and, in addition, meet the provisions of this chapter.</i>

**Appendix A6.1 - No changes**