

2022 California Fire Code Changes

SUMMARY

The bulk of amendments regarding Energy Storage Systems (ESS) occur in Chapters 1, 2, 9, 12 and Chapter 80, Referenced Standards.

The bulk of amendments regarding Type IV construction—tall wood/mass timber and cross-laminated timber—occur in Chapter 7 Section 701.6, Chapter 9 Section 914.3.1.2, and Chapter 33.

SIGNIFICANT CHANGES

NEW - CHANGE	CFC SECTION/TABLE NUMBER	COMMENTARY	MASTER PLAN IMPACT	
			YES	NO
<input type="checkbox"/> <input checked="" type="checkbox"/>	1.11.1	New definition to clarify buildings occupied by the state under the OSFM jurisdiction.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	1.11.6	Amendment referencing CBC Section 105.2 to clarify work exempt from permitting requirements.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	Chapter 1	Scope and administration match chapter 1 of the building code.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	105.3.1.1	Permit expiration extended to 12 months.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	105.5.1	Additive Manufacturing (3D Printing) requires operational permit as regulated by 230.3	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	105.5.14	An operational permit is required for stationary and mobile energy storage systems regulated by 1207.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	105.6.5	Construction permit for ESS regulated by 1207	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	105.6.53	Amendment to require an operational permit for an accumulation of more than 15 cubic feet of lithium-ion and lithium metal batteries and storage shall comply with new amendments in CFC Section 322.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	114	Reasons to deem a structure unsafe expanded.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	Chapter 2 3D Printer	Definition added for 3D printer and subtypes of 3D printing.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	Chapter 2 Atrium	Definition added for Atrium.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	Chapter 2 Child Care	Added a new defined term for child care that is consistent with Title 22 (Social Security) of the California Code of Regulations.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	Chapter 2 Day-Care	Amended the defined term day-care to specify the time period for the care of persons is not to exceed 24 hours, and is to be consistent with Title 22.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	Chapter 2	New defined term to specify characteristics of inflatable structures that need to be properly constructed and anchored.	<input type="checkbox"/>	<input checked="" type="checkbox"/>

SIGNIFICANT CHANGES (cont'd)

NEW - CHANGE	CFC SECTION/TABLE NUMBER	COMMENTARY	MASTER PLAN IMPACT YES - NO
	Inflatable Amusement Device		
<input type="checkbox"/> <input checked="" type="checkbox"/>	Chapter 2 Mobile Food Preparation Vehicles	Repealed this term to align with California Code of Regulations Title 25, Housing and Community Development. See Chapter 3 changes below.	<input type="checkbox"/> <input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	Chapter 2 PV Panel System, Ground-Mounted	New defined term to be consistent with references in CBC Chapters 16 and 31, CRC Chapter 3 and CFC Chapter 12.	<input type="checkbox"/> <input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	Chapter 2 PV Support Structure, Elevated	New defined term for an elevated PV support structure designed with useable space underneath intended for secondary use such as providing shade for motor vehicle parking. Requirements for installation are addressed in CBC Chapters 15 and 16.	<input type="checkbox"/> <input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	301.2	Repealed model code and references to mobile food vehicles throughout the code to address concerns regarding conflicting jurisdiction requirements between Title 25 and the CFC.	<input type="checkbox"/> <input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> <input type="checkbox"/>	320	Additive Manufacturing (3D Printing) New section added to address 3D printing.	<input type="checkbox"/> <input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> <input type="checkbox"/>	321	Artificial Combustible Vegetation. New section added to address artificial plants that may be fire hazard.	<input type="checkbox"/> <input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> <input type="checkbox"/>	322	Lithium-ion and lithium Metal Batteries. Adopted new section to address safety requirements, as well as associated sections in Chapter 4.	<input type="checkbox"/> <input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> <input type="checkbox"/>	403.10.6	Lithium-ion and lithium Metal Batteries mitigation planning. Amendments in these sections address fire safety and emergency action regarding battery storage and mitigation planning in the event of thermal runaway.	<input type="checkbox"/> <input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	508.1.3	Specific fire command center locations for F-1 and S-1 occupancies.	<input type="checkbox"/> <input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	508.1.5	Additional restrictions on what can be contained within a Fire Command center.	<input type="checkbox"/> <input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	508.1.7	"FIRE COMMAND CENTER" Door labeling required.	<input type="checkbox"/> <input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	510	Emergency Responder Communication Coverage. Changes throughout.	<input type="checkbox"/> <input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	603	Electrical Equipment, wiring hazards. References added to electrical code and expansions to electrical enforcement.	<input type="checkbox"/> <input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	605	Fuel Fire Appliances. References and code requirements addressing these appliances	<input type="checkbox"/> <input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> <input type="checkbox"/>	610	Clothes Dryer Exhaust Systems. Reference provided to applicable codes and maintenance required.	<input type="checkbox"/> <input checked="" type="checkbox"/>

SIGNIFICANT CHANGES (cont'd)

NEW - CHANGE	CFC SECTION/TABLE NUMBER	COMMENTARY	MASTER PLAN IMPACT	
			YES	NO
<input type="checkbox"/> <input checked="" type="checkbox"/>	703.2 and 704.2	Repair of penetrations.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	708	Spray Fire-Resistant Materials. To be maintained or replaced.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> <input type="checkbox"/>	808.5	Requirements for play structures added to existing buildings.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	Chapter 9	For Changes, see Building Code updates.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	907.2.6.4	Group I-4. New section to include the intent of the smoke detection requirements for Group I-4 occupancies with a reference to Section 436.1.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	907.2.11.8	Modified to address the references based on changes to both the NFPA 72 Standard 29.11.3.4, and the model code regarding smoke alarms and smoke detection systems.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	913.1	Amend the exception for automatic sprinkler pumps to correlate with the California Residential Code section R313.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	1032.2.1.2 and 1032.2.1.3	Adjustments and revisions to address maintenance requirements for fire escapes that have been relocated to Section 1032.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	Chapter 10	For Changes, see Building Code updates.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	1103.7.5.1	New Exception to manual fire alarm in R-1 occupancies.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	1103.9	Occupancies sited where carbon monoxide detection is required.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> <input type="checkbox"/>	1105.6.1	Two means of egress from smoke compartment or access to two adjacent smoke compartments.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	1202, 1203, 1204, 1205, 1206, and 1207	Repealed, renumbered, amended and carried forward existing amendments in Chapter 12 to adopt updated 2021 IFC model code language.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	1207.11.7-1207.11.7.3	Amendments regarding specific appliances, ESS equipment and devices that need protection from impact in a clearly defined area in residential garages and carports.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	1207.11.7.1	Added to illustrate the zones in which a typical residential garage ESS installation would trigger the need for impact protection, following prescriptive barrier and post designs.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	1203.1.2	Changes to requirements for protections of fuel lines of emergency and standby power systems.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	1203.2.5	Backup power required for exhaust ventilation systems required by section 1207.6.4.2.1.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	1203.4.1 and 1203.5.1.	Sections revised to include ambulatory care facilities.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> <input type="checkbox"/>	1204	Portable generator requirements added.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> <input type="checkbox"/>	1205.2 and 1205.2.3	Building Integrated photovoltaic exceptions addressed.	<input type="checkbox"/>	<input checked="" type="checkbox"/>

SIGNIFICANT CHANGES (cont'd)

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			YES	NO
<input checked="" type="checkbox"/> <input type="checkbox"/>	1205.5	Ground mounted PV systems, vegetation control.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> <input type="checkbox"/>	1206.14	Interconnection of a fuel cell vehicle energy storage system use.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> <input type="checkbox"/>	1207	Electrical Energy Storage Systems (ESS). New section addressing requirements for these systems.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	2201	Exceptions for Combustible dust producing operations.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	2203	Dust Explosion Prevention requirements greatly expanded.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	2208.2	Fueling appliance listings.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	2311.8	Exceptions for repair garages for vehicles fueled by lighter than air fuels.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	2808.3	Size of wood piles expanded and additional exceptions and separation added.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	3006	Exceptions to fire protection for industrial ovens added.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> <input type="checkbox"/>	3108	Requirements for inflatable Amusement Devices.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	3101.1	Carried forward existing amendments and added new amendment regarding temporary structures, water filled vessels and inflatable amusement devices.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	3103.8.2	Repealed the reference to Title 19 regulations regarding vehicle parking near tents.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	3103.9.1	Amendment requiring the tent manufacturer to provide the documentation permitting use of water filled vessels for anchoring and securing their tents.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	3104.3	Label requirements for temporary and permanent tents and membrane structures.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	3106	Amendment requiring basic design and safety criterion in accordance with ASTM F2374 for inflatable amusement devices also known as "bounce houses."	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> <input type="checkbox"/>	3205.1	Approved storage layout of high piled combustible storage shall be evaluated annually.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> <input type="checkbox"/>	3209.4	Emergency shutdown for automated storage.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	Chapter 33	Extensive changes to chapter on Fire Safety During Construction and Demolition.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	Chapter 38	IFC Chapter 38 is omitted in its entirety to correlate with the California Building Code and amendments regarding the Group L occupancy.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	3904	Listing and approvals for equipment for processing and extraction.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	Chapter 40	Storage of Distilled Spirits and Wines. New chapter.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	4902	New definition of plants less likely to ignite, contribute heat or spread flame. Also provides a list of resources for more information about these types of plants.	<input type="checkbox"/>	<input checked="" type="checkbox"/>

SIGNIFICANT CHANGES (cont'd)

NEW - CHANGE	CFC SECTION/TABLE NUMBER	COMMENTARY	MASTER PLAN IMPACT YES - NO
	Fire-Resistant Vegetation		
<input type="checkbox"/> <input checked="" type="checkbox"/>	4902 Local Responsibility Area	Amended to be consistent with language used in rest of the WUI regulations.	<input type="checkbox"/> <input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	4903	<p>Added to grant authority to local fire officials to require building owners to provide a fire protection plan to mitigate the wildfire hazards that may exist based on a project-specific wildfire hazard assessment that includes considerations of location, topography, aspect, and climatic and fire history.</p> <p>The fire protection plan shall address fire department access, egress, road and address signage, water supply, fuel reduction and defensible space requirements in accordance with the California Public Resources Code.</p>	<input type="checkbox"/> <input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	4903.3	New amendment establishes requirements for local agencies to provide information to the public regarding the identification of very high fire hazard severity zones (VHFHSZ) within a 30-day period. Other new requirements in this subsection address local agency responsibilities and duties to develop fire severity zone maps accessible to the general public, as well as requirements to designate by ordinance VHFHSZ.	<input type="checkbox"/> <input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	4906	New amendments in this section include additional requirements for the development, identification and maintenance of the vegetation management zones adjacent to structures, as well as design criteria for specific types of fire-resistant and non-fire-resistant vegetation.	<input type="checkbox"/> <input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	4908	New code sections added to comply with AB 2911 (Chapter 641, Statutes of 2018) which requires a survey of local governments every five years to identify existing subdivisions in the state responsibility area (SRA) or VHFHSZ without a secondary egress route. Subsections authorize the Board of Forestry and SFM-specified local government bodies to make recommendations to include creating secondary access or access road improvements, among other options.	<input type="checkbox"/> <input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	4910	Added to comply with AB 2911 (Chapter 641, Statutes of 2018) which requires cities and counties to adopt a comprehensive general plan with various elements including a safety element for protection of the community from unreasonable risks associated with various hazards, including wildfires.	<input type="checkbox"/> <input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	5001.1	Exceptions added to Hazardous materials.	<input type="checkbox"/> <input checked="" type="checkbox"/>

SIGNIFICANT CHANGES (cont'd)

NEW - CHANGE	CFC SECTION/TABLE NUMBER	COMMENTARY	MASTER PLAN IMPACT YES - NO	
<input type="checkbox"/> <input checked="" type="checkbox"/>	5004.14	Outdoor Storage Locations of Hazardous Materials.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	Chapter 51	Plastic Aerosols provisions added.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	5606.6	Requirements for commercial reloading of small ammunitions added.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	5701.2	Exceptions added for flammable and combustible liquids.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	5707	Changes to On-Demand Mobile Fueling Operations.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	Chapter 80	Amended several referenced standards to correlate with model code revisions and new California amendments.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	ASTM F2374	Added regarding provisions for inflatable amusement devices.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	Appendix P	Although SFM does not adopt Appendix P statewide in the California Fire Code, when adopted by local jurisdictions and fire districts, this appendix is meant to be a tool to enable communities to collect, assemble and represent the associated risks within a WUI fire area.	<input type="checkbox"/>	<input checked="" type="checkbox"/>