

**ATTACHMENT 1  
CODE ADOPTION TABLE**

<b>State Code Requirement</b>	<b>Existing/Proposed local Amendment</b>	<b>Reason for Amendment</b>	<b>Existing or <u>New</u> Amendment</b>
<b>Building Code and Residential Building Code</b>			
Requires special building materials in high fire areas for NEW buildings	Apply special building materials in high fire areas to additions and alterations as well as new buildings	Provides additional fire protection for buildings in high fire areas	Existing
Permits the use of wood roofing material in high fire areas	Prohibition of wood roofing material in high fire areas	Protect structures in case of fires and limit the spread of fire	Existing
Does not reference existing space sheathing requirements	Establishes minimum sheathing installation requirements for new roofing	Provides increased structural integrity of the structure and provide solid underlayment for roofing material	Existing
Requires special structural requirements for one and two family dwellings of light frame construction	Applies special structural requirement to detached one and two family dwellings up to two stories in height	Improves the quality of construction by reducing potential damages that may result from vertical irregularities of the structural system in buildings subject to seismic loads	Existing
Does not reference special anchorage and spacing or values for wood diaphragms	Establishes maximum wood diaphragms continuous ties and sets a maximum diaphragm shear	Improves the structural integrity of the building	Existing
Permits any registered design professional to perform structural observations with minimum guidelines	Requires professional structural designer or his designee and exempts one story single family and garages up to 2000 square feet	Registered design professional responsible for the structural design has thorough knowledge of the building he/she designed and be involved to observe the constructing based on their design	Existing

State Code Requirement	Existing/Proposed Local Amendment	Reason for Amendment	Existing or <u>New</u> Amendment
Exempts concrete foundation walls and does not address compressive strength of concrete and adhesives	Exception for special inspection for concrete to be no greater than 2500 pounds per square inch and include adhesives and mechanical anchors	Lack of quality control during construction resulting in poor performance of the building or structure	Existing
Permits permanent wood and timber foundation and retaining wall systems	Prohibits permanent wood and timber foundation and retaining wall systems	Wood foundation systems are not effective in supporting buildings and structures during seismic event and subject to deterioration	Existing
Permits the use of prescriptive design of concrete and masonry foundation walls and continuation of stepped footings	Limits prescriptive design of foundation wall design to one story structures and require continuous reinforcing steel	Necessary to take precautionary steps to reduce or eliminate potential problems that may result by following prescriptive design provisions	Existing
Permits ratio of cement mix for all structures and references general guidelines	Change the ratio of cement mix for structures assigned to seismic design requirements and clarify reinforcement sections to be used in design values for beams and columns	Requires minimum reinforcement in continuous footings to address the problem of poor performance of plane or under reinforced footings during a seismic event and using appropriate design values	Existing
Permits use of staples as fasteners and does not specify type of nail or hold down connection	Prohibit use of staples as fasteners to resist or transfer seismic forces and clarify quality of nails used and use approved cyclic load values or 75% of the allowable seismic load values for hold down connections	Limits the use of staples fasteners in resisting or transferring seismic forces, clarifies types of nails to be used on shear walls and connecting wood members and additional factor of safety for statically tested anchorage devices	Existing
Permits the use of 3/8 inch wood structural panels and posts as ends	Requires panels to be sheathed on one face with 15/32 inch minimum thickness wood structural panel sheathing and require a portal panel instead of a post at ends	Improves the performance level of buildings and structures that are subject to the higher seismic demands and reduce and limit potential damages to property	Existing

State Code Requirement	Existing/Proposed Local Amendment	Reason for Amendment	Existing or <u>New</u> Amendment
Permits wood frame structures greater than two stories not be designed by licensed professional	Requires a California licensed professional to design structures more than one story in height or with basement	Improves the quality of structural plans prepared by a licensee professional and to minimize or reduce structural deficiencies	Existing
Does not reference anchorage of heavy mechanical, electrical or plumbing components and equipment	Requires the attachment and anchorage of mechanical, electrical or plumbing components and equipment	Increases safety of structure by ensuring floor or roof support is adequate and structurally sound and detail attachment and anchorage design	<u>New</u>
Permits the use of braced wall panel support for certain seismic design	Requires interior braced walls to be supported by continuous foundations	Increases seismic support and structural safety	Existing
Does not require property line pool barrier	Requirements for pool enclosure	To prevent children from entering a property with a pool	Existing
<b>Green Building Code</b>			
Code applicability is vague	Clarifies that sections apply only to the area permitted and includes all additions and alterations	Clarifies applicability, continues existing proactive requirements to all non residential projects and minimizes confusion	Existing
No requirements in the code	Energy efficient standards for Municipal buildings of 5,000 square feet or more, nonresidential buildings of 25,000 square feet or more, mixed use and multi-family residential buildings of four stories in height or more, new municipal buildings, municipal renovations of 15,000 square feet or more and new commercial type building over 50,000 square feet	Continue existing requirements for large projects to increase energy efficiency through appliances, water saving fixtures and higher efficiency electrical lighting systems	Existing

<b>State Code Requirement</b>	<b>Existing/Proposed Local Amendment</b>	<b>Reason for Amendment</b>	<b>Existing or <u>New</u> Amendment</b>
Code requirements and values for cool roofs are based on 2001 California Energy Code and not in alignment with values in the 2013 California Building Energy Standards	Clarifies applicability and standards for cool roofs	Cool roofs will help mitigate the heat island effect in the City, it will increase the energy efficiency of buildings which result in reducing the energy consumption and reduce power generation. Cool roof values will be in alignment with values in the 2013 California Building Energy Standards. These values will provide logical incremental increase for Solar Reflectance and Thermal Emittance that is consistent with Tier 1 and Tier 2	<u>New</u>
Does not reference future electric vehicle charging requirements and where required for higher standard buildings the percentages are low	Requires installation of conduits for future electric vehicle charging in new construction and increase the percentages	It will be cost effective for pre installation of conduit during construction and will eliminate future unnecessary demolition and electrical service upgrades	<u>New</u>
Code does not reference future photovoltaic requirements	Future access for photovoltaic solar systems	It will be cost effective for pre installation of conduit during construction	Existing
<b>Mechanical Code</b>	No amendments	Adopt code entirely	
<b>Electrical Code</b>	No amendments	Adopt code entirely	
<b>Plumbing Code</b>	No amendments	Adopt code entirely	
<b>Fire Code</b>			
None	Add Section 104.12 'Cost Recovery' for the cost of mitigating and securing any emergency that is within the responsibility of the Fire Chief	Continue existing amendment; Allows for cost recovery for willful, negligent events	Existing

State Code Requirement	Existing/Proposed Local Amendment	Reason for Amendment	EXISTING or <u>New</u> Amendment
Allows storage of up to 500 gallons of propane without a permit review at an R-3 occupancy (residence)	Decreases the amount of propane that can be stored at an R-3 (residence) without a permit	Continue existing amendment; Due to greater property densities and decreased property setbacks, decreased storage amounts are warranted unless storage is reviewed and approved through a permit process; Normal amounts of propane for backyard BBQs should be unaffected	Existing
Requires construction permits for outdoor storage of cryogenic fluids only	Construction permit required for installation, alteration, or closure of a cryogenic fluid storage system	Continue existing amendment; Indoor storage poses a greater hazard than outdoor, and warrants plan review and permitting	Existing
None	Intentional use of materials, devices, or building design features that decrease the efficiency radio communications shall be prohibited	Continue existing amendment; Ensures emergency responder safety by ensuring public safety radio communications are not blocked	Existing
None	Minimum fire suppression for new construction required	Continue existing amendment; Increased property densities and decreased setbacks, limited fire access in parts of the City, and routine fire hazard weather conditions warrant sprinklers in all new construction, with limited exceptions	Existing
Establishes minimum requirements for water supply to fire sprinkler systems	Hydraulic calculations for water supply shall include a 10% reduction from the source	Continue existing amendment; Reduction allows for added system reliability given the age of the water system, use of well water with increased mineral content and in earthquake conditions	Existing

State Code Requirement	Existing/Proposed Local Amendment	Reason for Amendment	Existing or <u>New</u> Amendment
Allows the use of combined residential domestic water and sprinkler systems in residences	Combination fire sprinkler services not allowed for NFPA 13R systems	Continue existing amendment; Increases system reliability in the event of damage to or leaks from the domestic water system, either routine or under earthquake conditions; Also allows sprinkler systems to remain intact when domestic water service is turned off for any reason	Existing
Establishes requirements for installing fire alarm systems	Automatic fire alarm systems required for new construction of 10,000 square feet or more	Continue existing amendment; Increases the use of fire alarms to speed evacuation and improve fire service access and decrease the necessity for rescue under emergency conditions	Existing
None	Emergency alarm control panels shall use listed and approved components	Continue existing amendment; Provides guidance on acceptable equipment	Existing
Establishes retrofit requirements for adding emergency responder radio coverage to existing buildings	Establishes explicit criteria for retrofit requirements for adding emergency responder radio coverage to existing buildings	Continue existing amendment; Existing code provides only one explicit criterion, and allows the Fire Dept. to require retrofit at will; The amendment establishes clear and explicit criteria	Existing
Establishes retrofit requirements for adding fire sprinklers to existing buildings	Establishes explicit criteria for retrofit requirements for adding fire sprinklers to existing buildings	Continue existing amendment; Existing code provides little guidance on retrofit criteria; The amendment establishes clear and explicit criteria	Existing
None	Updates reference standard to "The International Wildland-Urban Interface Code, 2012 edition"	Provides additional guidance regarding acceptable materials and practices; Updates code reference to the most current version	Existing
Allows for the use of rated wood roofing materials in brush fire hazard areas	Wood roof coverings prohibited on any structure located in the Extreme Hazard, High Hazard, or Moderate Hazard Fire Severity Zones	Continue existing amendment; Even rated wood roofing covering materials have been shown to increase fire spread through communities; This amendment disallows their use in brush fire hazard areas	Existing

State Code Requirement	Existing/Proposed Local Amendment	Reason for Amendment	Existing or <u>New</u> Amendment
Establishes areas where hazardous vegetation management may be required	Increases areas where hazardous vegetation management may be required, if warranted upon review	Continue existing amendment. Increased property densities and decreased setbacks within brush areas, limited fire access in parts of the City, and routine fire hazard weather conditions warrant increased review and mitigation of hazardous vegetation in brush hazard areas	Existing
None	Establishes a time limit for "temporary" facility closures of 6 months, with one possible extension	Continue existing amendment; The Code provides no guidance as to how long a "Temporary" facility closure may last; This amendment establishes a specific criterion	Existing
None	Clarifies minimum testing requirements for tanks, storage, monitoring and other systems for the storage, use or handling of any hazardous material	Continue existing amendment; Provides more detailed guidance on system testing	Existing
Establishes requirement for venting of above ground tanks	Clarifies venting requirements to relieve excessive internal pressure caused by exposure to fires on stationary above ground tanks according to NFPA 30	Continue existing amendment; Provides additional clarification for the regulated community	Existing
Establishes requirements for overfill prevention on some tanks	Requires overfill prevention for all flammable liquid tanks by deleting exception	Continue existing amendment; Overfill prevention is an inexpensive safety measure that is warranted on all above ground tanks due to the increased property density and limited setbacks allowed in Pasadena	Existing
Allows emergency vents to discharge inside vaults	Emergency vents not allowed to discharge inside a vault	Continue existing amendment; Prevents potential explosive vapors within vaults when emergency vents function	Existing

<b>State Code Requirement</b>	<b>Existing/Proposed Local Amendment</b>	<b>Reason for Amendment</b>	<b>Existing or New Amendment</b>
Placeholder section to allow local jurisdiction to limit areas where above-ground tanks may be installed	Storage of Class I and II liquids in above-ground storage tanks outside of building prohibited	Continue existing amendment; Installation of above-ground flammable liquids is limited due to the increased property density and limited setbacks allowed in Pasadena	Existing
Placeholder section to allow local jurisdiction to limit areas where above-ground tanks may be installed	Storage of Class I and II liquids in above-ground storage tanks outside of building prohibited	Continue existing amendment; Installation of above-ground flammable liquids is limited due to the increased property density and limited setbacks allowed in Pasadena	Existing
Placeholder section to allow local jurisdiction to limit areas where flammable cryogenic fluids may be installed	The storage of flammable cryogenic fluids in stationary containers outside of buildings is prohibited	Continue existing amendment; Installation of flammable cryogenic fluids is limited due to the increased property density and limited setbacks allowed in Pasadena	Existing
Allows installation of up to 500 gallons of propane without permit review	Reduced quantity thresholds for construction documents for the installation of LP-gas containers	Continue existing amendment; Due to greater property densities and decreased property setbacks, decreased storage amounts are warranted unless storage is reviewed and approved through a permit process; Normal amounts of propane for backyard BBQs should be unaffected	Existing
Placeholder section to allow local jurisdiction to establish limits on propane storage	Aggregate capacity of LP-gas of any one installation shall not exceed a water capacity of 2,000 gallons	Continue existing amendment; Due to greater property densities and decreased property setbacks, limited storage amounts are warranted	Existing
A reduction in required fire flow of up to 75 percent is allowed when the building has an approved automatic sprinkler system	A reduction in required fire flow of up to 50 percent is allowed when the building has an approved automatic sprinkler system	Continue existing amendment; Reduction allows for added system reliability given the age of the water system, use of well water with increased mineral content and in earthquake conditions	Existing

<b>State Code Requirement</b>	<b>Existing/Proposed Local Amendment</b>	<b>Reason for Amendment</b>	<b>Existing or <u>New</u> Amendment</b>
Establishes requirements for fire access road signage	Fire apparatus access roads shall be marked with permanent "NO PARKING – FIRE LANE" signs complying with current specifications maintained by the Pasadena Department of Public Works	Continue existing amendment; Conforms signage to Public Works' existing specifications	Existing