

Attachment A
CODE ADOPTION TABLE

State Code Requirements	Proposed local Amendment	Reason for Amendment	Amendment Type (Existing or New)
Building Code and Residential Building Code			
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 fire 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 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 damage 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 designee and exempts one story single family and garages up to 2000 square feet	Ensures structural observations are performed by qualified registered design professionals	Existing

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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	Ensures quality control and better performance of the building.	Existing
Permits permanent wood and timber foundation and retaining wall systems	Prohibits permanent wood and timber foundation and retaining wall systems	Ensures sound foundation systems which are effective in supporting buildings and structures during seismic event	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	Precautionary steps to reduce or eliminate potential problems that may result by following prescriptive design provisions to ensure safer structures	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 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	Eliminates 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

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Permits wood frame structures greater than two stories not to 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 licensed professional 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	Existing
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 or property line barrier	Prevents children from entering a property with a pool	Existing
Green Building Code			Existing
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 code	Apply energy efficient standards to 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

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State Code Requirements	Proposed local Amendment	Reason for Amendment	Amendment Type (Existing or New)
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	Clarification on the applicability and standards for installing cool roofs	Cool roofs help mitigate the heat island effect in the City, increase the energy efficiency of buildings 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	Existing
Code does not reference future photovoltaic requirements	Requires installation of future access for photovoltaic solar systems	It is cost effective for pre installation of conduit during construction rather than after the fact. Incentive for future solar installations	Existing
Mechanical Code	No amendments	N/A	N/A
Electrical Code	No amendments	N/A	N/A
Plumbing Code	No amendments	N/A	N/A
Fire Code			
Placeholder section for identifying the name of the local code	Regulations shall be known as the Fire Code of the City of Pasadena.	Renames the Code specifically for Pasadena	Existing
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	Allows for cost recovery for willful, negligent events	Existing
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.	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	Construction permit required for indoor and outdoor installation, alteration, or	Indoor storage poses a greater hazard than outdoor, and warrants plan review and	Existing

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only.	closure of a cryogenic fluid storage system.	permitting.	
Establishes a Board of Appeals process	'Board of Appeals', deleted in entirety.	PMC establishes use of City Council as the Board of Appeals in line with other Codes, rather than creating an entire new Board and process.	Existing
Placeholder section for local penalties.	Violations of the Code deemed a misdemeanor punishable by a fine of not more than \$1,000.00 or imprisonment for not more than (1) year.	Establishes Fire Code violations consistent with other Codes.	Existing
Placeholder section for local penalties.	Penalty for continuing work after having been served with a 'Stop Work Order', guilty of a misdemeanor and penalties	Establishes Fire Code violations consistent with other Codes.	Existing
Model Code adopts standards related to open flames at religious ceremonies. Section not adopted by State.	Deletes section.	Section deleted because it conflicts with other State requirements from CCR, Title 19	NEW
Model Code establishes specific symbols to be used when placarding vacant property. Section not adopted by State.	Deletes section.	Adoption of specific symbols not necessary. The Fire Department may designate appropriate information for placards.	New
Model Code adopts standards related to large laundry carts. Section not adopted by State.	Deletes section.	Section appears unnecessary given the lack of risk history in Pasadena and lack of significant facilities with large numbers of such carts.	New
None	Establishes requirement to render incapable of motion vehicles displayed in places of assembly.	With the advent of all electric and other alternative styles of vehicles, this section is needed to prevent someone from driving a vehicle, either accidentally or intentionally.	New
None.	Intentional use of materials, devices, or building design features that decrease the efficiency radio communications shall be prohibited.	Ensures emergency responder safety by ensuring public safety radio communications are not blocked.	Existing
None	Minimum fire suppression for new construction required	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
None	Prohibits installation of partial automatic fire suppression systems	Partial systems create the impression of safety systems in buildings where only some	Existing

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		of the structure is protected.	
Establishes minimum requirements for water supply to fire sprinkler systems	Hydraulic calculations for water supply shall include a 10% reduction from the source.	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
Allows the use of combined residential domestic water and sprinkler systems in residences.	Combination fire sprinkler services not allowed for NFPA 13R systems.	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.	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.	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.	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.	Existing code provides little guidance on retrofit criteria. The amendment establishes clear and explicit criteria.	Existing
Establishes retrofit requirements for adding fire alarms to existing buildings.	Establishes explicit criteria for retrofit requirements for adding fire alarms to existing buildings.	Existing code provides little guidance on retrofit criteria. The amendment establishes clear and explicit criteria.	Existing
Establishes general requirements for requiring fire safety officers at film productions.	Deletes the exemption for required fire safety officers if the location complies with the requirements of Chapter 48.	Chapter 48 only partially addresses activities that might require a fire safety officer (e.g. the use of special effects is not covered). The Fire Department evaluates each Filming Permit for the need for a fire safety officer on a case-by-case basis.	New
Provides a non-exclusive list of possible permits required for filming activities.	Add a common permissible activity, the use of propane, to the list.	While the list provided is not exclusive, adding this common permit will make the section more useful.	New
None.	Updates reference standard to "The International Wildland-Urban Interface Code, 2015 edition"	Provides additional guidance regarding acceptable materials and practices. Updates code reference to the most current version	Existing

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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.	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
Establishes areas where hazardous vegetation management may be required.	Increases areas where hazardous vegetation management may be required, if warranted upon review.	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.	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.	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.	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.	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
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.	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.	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.	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	Reduced quantity thresholds for	Due to greater property densities and	Existing

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gallons of propane without permit review.	construction documents for the installation of LP-gas containers.	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.	
None	Establishes minimum testing requirement for propane systems.	Due to greater property densities and decreased property setbacks, testing of the system and safety equipment is warranted.	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.	Due to greater property densities and decreased property setbacks, limited storage amounts are warranted	Existing
Establishes Appeal Board practices	Deleted in its entirety.	PMC establishes use of City Council as the Board of Appeals in line with other Codes, rather than creating an entire new Board and process.	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.	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
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.	Conforms signage to Public Works' existing specifications.	Existing
Establishes requirements for such things as building information signs, ambulatory care facilities, firefighter air replenishment systems and retroactive sprinklers in high-rise buildings. None of these Appendices are adopted by the State	Appendices are deleted	These Appendices are unwarranted in Pasadena	Existing

Attachment B

NEW STANDARDS FOR BUILDING PERMITS

State Code Requirements	Proposed Standard	Reason for Proposed Standard
Building Code and Residential Building Code		
Extends permits by 180 days each time an extension is conducted	Limit the duration of a building permit to 24 months for one and two-family dwellings and 36 months for non-residential and multiple-family residential projects.	To limit the amount of time a project is under construction and reduce potential impacts from lengthy, on-going construction.
None	Require a 2' x 3' construction sign, with project details and contact information, to be posted in a conspicuous location visible from public right-of-way.	To inform impacted nearby properties about the scope of the project and term of the construction. The sign will also provide contact information if there are any concerns regarding the project.
None	Requirement for the installation of a 6' high chain link fence with opaque mesh screening around construction sites.	To screen construction sites when the construction area or construction equipment is visible from public right-of-way.