

# WUI VEGETATION CODE WORKGROUP

## REGULAR MEETING

NOVEMBER 12, 2025

9:00 AM

Redwood Room – 2180 Milvia St. 6<sup>th</sup> Floor

Fire Chief's Representative – Asst. Chief Colin Arnold

Assistant Chief David Winnacker  
Richard Illgen  
George Perez-Velez

Eric Weaver  
Margit Roos-Collins

### AGENDA

#### Preliminary Matters

Call to Order

Approval of November 5 Minutes

Public Comment on Non-Agenda Matters

**AGENDA MATTERS** *All Regular agenda matters are for discussion and possible action.*

1. **Action:** **Discussion and possible action on suggestions for the Resident Guide.**  
**Written Materials:** Draft List of Proposed Ideas for the Resident Guide
2. **Action:** **Discussion on developing a framework for submitting scientific evidence for review.**  
**Written Materials:** LA Report to BOF Zone Zero Committee
3. **Action:** **Code Comparison**  
**Written Materials:** Clean Draft of the new language  
Clean Draft of the old language

Tracked-changes version comparing the new and old language

Link to the [Fire Pathways Risk Assessment](#)

Link to the [Berkeley Fire Hazard Severity Zones & CALFIRE LRA Map Update](#)

**4. Action: Agenda topics submitted by a member for consideration and discussion:**

State Fire Regulations

Excerpts from the Government Code on Fire Zones

Soils and Geology

Fire-resistant Vegetation

Eucalyptus and Other Dangerous Trees

Building Composition and Compliance

Compliance Costs

Review and Discussion of Submitted Reference Materials on Wildfire Preparedness and Zone 0 Regulations

**Written Materials: To reduce printing and paper use, all referenced documents will be available in a binder for public access at the meeting.**

Clean Draft of the new language

Clean Draft of the old language

State Fire Regulations

Excerpts from the Government Code on Fire Zones

Firewise: How To Prepare Your Home For Wildfires

Elsevier, Landscape and Urban Planning article

NFPA Preparing Homes for Wildfire

Reducing the Vulnerability of Buildings to Wildfire

Science Summary by Dr. Travis Longcore

Brentwood HOA Comments on Proposed Zone 0 Regulations

Zone 0 Won't Save Your Home from Wildfire

**5. Action: Discussion regarding citations, penalties, and appeals process and reviewing differing perspectives on the enforcement approach (e.g., formal vs. informal).**

**Written Materials:** BMC 1.28  
EMBER Enforcement, Page 3 (modified).  
Email regarding internal Administrative Citation Progress.  
Proposed Modifications of Berkeley Fire Code for WUI Appeals and Violations  
Report 26, Fire Hazard Severity Zone 0 Implementation Plan, dated September 9  
BFD WUI Division Inspection and Compliance Process Statement

## WORK GROUP REPORTS

### Adjournment

*This meeting will be conducted in accordance with the Brown Act, Government Code Section 54953. Any member of the public may attend this meeting. Questions regarding this matter may be addressed to the Wildland Urban Interface Division of the Berkeley Fire Department, [wildfire@berkeleyca.gov](mailto:wildfire@berkeleyca.gov) 510-981-5620. Communications to Berkeley boards, commissions or committees are public record and will become part of the City's electronic records, which are accessible through the City's website. Please note: E-mail addresses, names, addresses, and other contact information are not required but, if included in any communication to a City board, commission, or committee, will become part of the public record. If you do not want your e-mail address or any other contact information to be made public, you may deliver communications via U.S. Postal Service or in person to the secretary of the relevant board, commission, or committee. If you do not want your contact information included in the public record, please do not include that information in your communication. Please contact the secretary to the relevant board, commission, or committee for further information. Any writings or documents provided to a majority of the commission regarding any item on this agenda will be made available for public inspection at Berkeley Fire Department located at 2100 Martin Luther King Jr. Way Berkeley, CA.*

#### COMMUNICATION ACCESS INFORMATION:

This meeting is being held in a wheelchair-accessible location. To request a disability-related accommodation(s) to participate in the meeting, including auxiliary aids or services, please contact the Disability Services specialist at 981-6418 (V) or 981-6347 (TDD) at least three business days before the meeting date. Please refrain from wearing scented products to this meeting.

~~~~~  
I hereby certify that the agenda for this regular/special meeting of the Berkeley City's Disaster and Fire Safety Commission was posted at the front of the Division of Training, 997 Cedar Street, as well as on the City's website, three days prior to the scheduled Commission meeting.

#### SECRETARY SIGNATURE

*Colin Arnold*

## Berkeley's FireSafe Guide for the landscaping around your home

### Resident Guide for implementing defensible space for homes at risk of wildfire

This should be widely available to both the affected zones, and those who may have a vested interest.

Overarching Themes:

Why are the rules for that different in Berkeley than at the state level?

Why is it important to do this?

How does following these rules help the FD fight this fire? How does the work in the highest risk area provide for their own protection.

The goal of this document is to reach people where they are at, help them understand how to accomplish this without unnecessary angst, and to do so in a way that balances the risk of wildfire loss with the need to prepare for the event.

The Berkeley Fire Department is your best resource to help understand what to do, and make a plan to do it in a way that helps you feel good about where you live; both in how it looks, and how safe you feel living there. Use this guide to create your own personal mitigation plan that gets you to where you need to be on a timeline that works for you.

Why has Berkeley approached this issue differently than other local jurisdictions? Why are we focused on vegetation and not siding or SSD?

This is about re-evaluating our relationship with the environment we are in, and evolving with it. We have a Mediterranean climate. We can't force another reality. How to we balance this with encouraging the environment around us where we can (birds, etc).

Berkeleyside had a thoughtful article that looked back on how landscaping choices have evolved in Berkeley:

Mediterranean climates like Berkeley's are found in only 2% of the earth's land mass. Our mild summers and inexpensive water pumped from Sierran rivers have made it possible to grow plants from a much broader range of climates and to successfully imitate garden styles developed for rainy summer locales. Part of learning to live sustainably in Berkeley is learning to cherish gardens that need less water. Mediterranean gardens are a good source of inspiration as they often include hardscaping adjacent to a home.

What is our fire regime

## HERES HOW YOU GET TO COMPLIANCE:

Self Inspection checklist, THEN: Coaching Plan, THEN AMMR Form, THEN Compliance and Enforcement process based on your area.

Inspectors are available to assess the risk free of charge around your property and develop a plan to come into compliance that involves benchmarks to meet each cycle. They will prioritize the biggest hazards first, and help explain the steps to get to full compliance over a time period. The first steps will need to be met 60 days after the inspection.

### Areas for further discussion:

The work you do immediately around your home is the single most effective thing you can do to stop your home from igniting from wildfire. And if your home doesn't ignite, your neighbors home is also much better protected. Furthermore, defensible space help the fire department do their jobs after the fire starts. The City of Berkeley, after yet another devastating fire, made the decision to take this step because while doing this work on one property helps stops embers and wildfire from igniting that home, because our homes are so closely spaced, we need to rely on our neighbors to be proactive as well in order to effectively protect ourselves.

How does following these rules help the FD fight these fires?

- By making it harder for embers to ignite homes, we expect these changes to buy time for evacuation and for assembling enough firefighters to manage the few houses that do catch fire
- Clear Zone 0's, and wildfire-prepared landscaping in Zone 1 makes it safer for firefighters, and make their efforts faster and more effective, because the first thing they often have to do is cut away shrubs and trees that surround a burning house. In cases where the vegetation is to dense to provide them with adequate space to work safely, they cant protect the home.

NEED the wind chart and description to explain why the eucs aren't the backstop to the problem (Need DW)

The WAMMR process and how to follow it

- What if I need more time vs.
- What if I want a technical modification

- What if I have practical difficulties, vs. What if I just need more time?+
- My neighbor's happy to remove the plants but can't afford to do this work. Can I contribute to my neighbors' work instead of removing my prized shrubs?
- Can I remove a big juniper, cypress, pine, or eucalyptus from my yard instead of the plants closest to my house?
- Can I substitute home hardening and hardscaping?

Enforcement process

Financial Assistance program

Chipper Program

A list of contractors

How can I handle erosion, what do I do if the erosion issue is large enough that following the fire code will result in soil instability. Also, stormwater issues and how to handle.

Is there a reputable landscape architect or soils engineer that could provide a framework for how to explore whether you have erosion concerns. What is the best practice to reduce risk without increasing erosion concern. How to address stormwater management while also addressing fire concern.

If you have concerns, bring them up with an inspector to develop a path forward

Links to FireSafe Berkeley

BFD Site

BFSC Site

FireWise Comtes

DFSC

What is Defensible Space

Where does my responsibility end and my neighbors start?

Surely it can't be okay for a neighbor's future choices to impose a larger Zone 0 on my yard?!

What is zone zero?

How does it affect me?

What do I do about it?

What happens if I don't do anything?

What CAN I do with vegetation in a given zone?

How can I work groundcover, or low lying perennials in between shrubs.

This also helps with runoff or erosion concerns

How do I:

Make sure my tree has adequate spacing to the structure (walls, roof, etc)

What is COMBUSTIBLE? What isn't?

Why cant I have succulents within 5'

Where do I put my car

Hedges to Fences

If I cut down my hedge, I'll lose the outdoor privacy between my house and my neighbor.

What can I do to replace that privacy? Is the building department going to allow higher fences now?

Fence: range of approaches:

Low end: metal posts and wire, hog wire, chain link,

Medium: HardieBoard and steel supports – can use for privacy fencing

Higher: Corten steel panels, wrought iron, aluminum and steel designs. Rock, stucco, or brick walls (kept low in Berkeley for earthquakes)

When it comes to gates: can leave the wooden piece attached to the house. Substitute a metal panel on either side of a metal gate for first five feet.

Suggestions for replacements for common combustible/plastic items around the home

Fence

Shed

Compost Bins: Models that are rotating bins up on metal legs are good.

Hose

Trash Cans: These are a common cause of ignitions during ember storms. They should be kept outside of zone zero, or stored in a well designed container that can withstand ember and direct flame.

Emergency Supply Shed: a metal job box works well for this – air and water-tight.

Yard equipment: We often lean tools against the least visible side of the house or put under the deck or in a shed [plastic playsets and pools, wheelbarrows, seed spreaders, lawnmower]. When these tools have combustible parts like wood or plastic, consider replacing them or moving them to somewhere else.

No I have to remove my deck.

NO. But if its attached to the structure, it need to have the 5' zone incorporated around it if it is combustible (i.e. not stone, concrete, etc.)

FAQs

Quick QR card that links back to the website.

Link from FD website

What can I do about trees on my property, and especially eucalyptus.

Elements that can add to the appeal of Zone 0 landscaping:

Recirculating, solar-powered fountains.

A metal bench with bright pillows.

Pebble and stone slab walkways (with a few marbles mixed in for delight?) – or brick paths or decomposed granite or concrete.

Tiled outdoor spaces with plants in terracotta or ceramic pots.

A space expanded out from Zone 0 enough to include a metal dining table and chairs; it doesn't need to be a straight line at 5' from the structure, but can meander out into zone 1 to add interest.

**CITY OF LOS ANGELES**  
COUNCIL MOTION REPORT BACK 10-2468-S2

DATE: September 8, 2025

TO: Public Safety Committee - City Council  
City of Los Angeles

FROM: City of Los Angeles Community Forestry Advisory Committee (CFAC)  
Los Angeles Fire Department (LAFD)

**RE: Recommendations on the State’s proposed landscape management regulations**

**I. Introduction**

On July 1, 2025, the Los Angeles City Council adopted an amended Motion (CF [10-2468-S2](#)) directing the Community Forest Advisory Committee (CFAC) and the Los Angeles Fire Department (LAFD) to report on the State of California’s (State) proposed regulation changes to landscape management in Very High Fire Hazard Severity Zones (VHFHSZ) and propose recommendations for revising those regulations to allow for better integration of biodiversity and ecological health in fire mitigation planning. The goal is to protect our natural resources while reducing fire risk within the fire hazard severity zone.

The proposed regulations add a new enforcement zone to the existing Zones 1 and 2. The new Zone 0 would create a more restrictive buffer prohibiting trees (with some exceptions), and all in-ground plants, shrubs, and lawn, within five-feet of any structure in the VHFHSZ, resulting in the estimated removal of nearly 2,000 acres of vegetation within the City of Los Angeles.. This report focuses on the unintended impacts, principally from an ecological perspective, but also its actual effectiveness in a dense urban setting. Furthermore there are economic, social, equity, historical, cultural, and health consequences which these changes could impose on communities across Los Angeles.

Our conclusions and recommendations reflect real world conditions in Southern California. The primary factors driving destructive fires in our communities are: proximity of homes to one another, high wind conditions, and the condition of vegetation.

This report will above all recommend exempting well-maintained vegetation and trees from removal, allow for an appeals process, and give flexibility to local fire departments and their inspectors.

**II. Background**

Wildfire has long shaped Southern California’s ecology. As development pushed deeper into fire-prone wildlands, entire communities were built in what ecologists call the wildland-urban interface (WUI), where natural fires persist despite urbanization. This combined with invasive species and high-wind events, has increased fire intensity and risk. Research shows that modern urban fires are primarily driven by house-to-house ignition during wind events rather than vegetation, making structure spacing and home hardening more effective than widespread vegetation removal. Effective mitigation should focus on ignition prevention, building hardening, and managing the spacing and vulnerability of structures, more than removing vegetation.

**Current State Fire Code**

The California Legislature has enacted a series of evolving policies to protect communities from wildfires. In 1965, it passed California Public Resources Code (PRC) [Section 4291](#), establishing minimum standards for vegetation management. These were amended in 2013 and 2024 to further define rules and responsibilities. In 1982, the legislature mandated the mapping of Fire Hazard Severity Zones to identify

areas most likely to experience wildland fires. These CalFire maps define State Responsibility Areas (SRAs), usually in rural areas, where the financial responsibility for preventing and suppressing wildfires is primarily the responsibility of the state, and the mostly urban Local Responsibility Areas (LRAs), where local fire departments, like the Los Angeles Fire Department, have primary responsibility.

The maps define three tiers of Fire Hazard Severity: Moderate, High, and Very High. The vegetation management requirements in Section 4291 apply to *all properties in SRAs and properties in the Very High Fire Severity Zones in LRAs.*

The broad clearance standards set by the state in these areas are designed to maintain vegetation in wildland areas “so as to effectively manage fuels and not form a means of rapidly transmitting fire from other nearby vegetation to a structure or from a structure to other nearby vegetation.”

#### **Current Zone 1 Requirements – Within 30 feet of all structures or to the property line**

- Remove all dead or dying grass, plants, shrubs, trees, branches, leaves, weeds, and pine needles from the Zone whether such vegetation occurs in yard areas around the "Building or Structure," on the roof or rain gutters of the "Building or Structure," or any other location within the Zone.
- Remove dead tree or shrub branches that overhang roofs, below or adjacent to windows, or which are adjacent to wall surfaces, and keep all branches a minimum of ten feet (10 ft.) away from chimney and stovepipe outlets.
- Relocate exposed firewood piles outside of Zone 1 unless they are completely covered in a fire resistant material.
- Remove flammable vegetation and items that could catch fire which are adjacent to or under combustible decks, balconies and stairs

#### **Current Zone 2 Requirements – Within 30–100 feet of all structures or to the property line**

- Cut annual grasses and forbs down to a maximum height of 4 inches
- Remove fuels to create proper horizontal and vertical spacing among shrubs and trees, and remove lower tree limbs
- All exposed woodpiles must have a minimum of 10 feet clearance, down to bare mineral soil, in all directions
- Remove all dead and dying trees, branches, shrubs, or other plants, and surface debris. Loose surface litter, normally consisting of fallen leaves or needles, twigs, bark, and cones, shall be permitted to a depth of 3 inches

#### **Current LA Municipal Fire Code**

The fire code for the City of Los Angeles encompasses the full state code and clarifies that the clearance rules “shall not require the removal of trees, ornamental shrubbery or plants which are used as ground cover, provided such do not provide a ready fuel supply to augment the spread or intensity of a fire.” The rules for the first 100’ surrounding a structure otherwise are stricter than the state’s, requiring that vegetation be cut to a maximum height of 3 inches, prescribing a pruning and spacing regimen for established trees and shrubs, and doubling the amount of defensible space from 100’ to 200’. In the first 100” the rules include:

- For trees taller than 18 feet, remove lower branches so no foliage is within 6 feet of the ground, and remove all dead material. For trees and shrubs less than 18 feet, remove lower branches to 1/3 of their height, and remove all dead material.

- Native shrubs trimmed up from the ground to 1/3 of their height and not exceed 216 cubic feet in volume.
- Native shrubs spaced at a distance of not less than three times their maximum diameter, but not less than 18-feet from the edge of any other native shrub, building or structure
- All dead wood and other combustible material within 18-feet of such shrub removed except as provided above.
- All roof surfaces shall be maintained free of substantial accumulation of leaves, needles, twigs and any other combustible matter.
- Maintain 5 feet of vertical clearance between roof surfaces and portions of overhanging trees.
- Comply with protected native tree and shrub ordinance.

### ***The AB3074 “Ember-Resistant Zones Act” and Zone 0***

Citing a measurable increase in the frequency and destructiveness of California fires, in 2020, California Assemblymember Laura Friedman introduced [AB 3074](#). The “Fire prevention: wildfire risk: defensible space: ember-resistant zones act” instructed the State Board of Forestry and Fire Protection to create a new defensible zone that would eliminate materials “likely to be ignited by embers” in a new zone of 0’-5’ around structures in SRAs and Very High Fire Severity Zones in LRAs. The bill aimed to increase property protection while allowing for consideration of ecological and other impacts and required consultation with fire officials, government representatives, environmentalists, and other stakeholders. It included these parameters:

- The guidance document shall include, but not be limited to, regionally appropriate vegetation management suggestions that preserve and restore native species that are fire resistant or drought tolerant, or both, minimize erosion, minimize water consumption, and permit trees near homes for shade, aesthetics, and habitat; and suggestions to minimize or eliminate the risk of flammability of nonvegetative sources of combustion such as woodpiles, propane tanks, decks, and outdoor lawn furniture.
- It should consider the elimination of materials in the ember-resistant zone that would likely be ignited by embers.
- The amount of fuel modification necessary shall consider the flammability of the structure as affected by building material, building standards, location, and type of vegetation.
- Fuels shall be maintained in a condition so that a wildfire burning under average weather conditions would be unlikely to ignite the structure.
- That “in the development of this program, the State Fire Marshal shall consult with representatives from local, state, and federal fire services, local government, building officials, utility companies, the building industry, insurers and insurance research organizations, and the environmental community”
- That suggested administrative procedures “allow for appeal of the citation by the property owner.”
- That the Department of Forestry take “into account property owners’ financial resources and the scope of work necessary to achieve compliance”

The bill instructed the Board of Forestry (BOF) to create guidelines for these provisions, but no action was taken until after the Palisades and Eaton Canyon fires when Governor Newsom issued an [executive order](#) instructing them to finalize them by the end of 2025.

### ***Proposed Zone 0 Requirements***

The Board of Forestry’s Zone 0 Advisory Committee began issuing proposed regulations in March. They have evolved over the months but as of August 2025 (full text of their August Plead is provided in Appendix A), the proposed Zone 0 requirements included the following:

- No landscaping materials that are likely to be ignited by embers are permitted including but not limited to grass, ornamental or native plants, shrubs, fallen leaves and tree needles, weeds, and combustible mulches including bark and woodchips. (No in-ground plants allowed.)
- Potted plants are allowable within certain parameters regarding size, placement, and materials.
- Trees are allowed provided there are no dead or dying branches and that all live branches are kept 5' above the roof of any structure, 10' above any chimneys or stovepipes and 5' from the side of any structure.
- The provisions for trees are exempted in the case of single specimen of trees that are well-pruned and maintained so as to effectively manage fuels and fuel ladders, as provided in Public Resources Code Section 4291.
- No combustible boards, timbers, firewood, combustible petroleum-based products, window boxes, and trellises are permitted.
- Fences that are directly attached to a Building or Structure shall have a five foot (5 ft) non-combustible span at the point of attachment. After the effective date of this regulation, no new Combustible fences are permitted within five feet (5 ft) of a Building or Structure including an attached deck.
- Outbuildings are not permitted in Zone 0.
- The requirements for Zone 0 will take effect for new Structures upon the date that the regulations are updated and for existing Structures three years thereafter.

**The rule regarding excluded materials within the 0-5' zone goes beyond what was intended in AB3074, taking it from an “ember-resistant zone,” to a non-combustible zone.** Non-combustible suggests no vegetation or other burnable material, while ember-resistant allows for healthy, well-maintained vegetation because it is full of water, unlike other more easily ignited items, such as wood mulch.

In the case of trees, the proposed regulations seem comparable to current LA Municipal Fire Code, requiring a distance of 5' from an adjacent roofline and 10' from a chimney or stovepipe. But they also require removal of branches within 5' of an adjacent wall. This requirement could mean virtually no branches on the trunk of the tree to above the roofline, or on just one side of the tree. Either scenario could inflict structural or life-threatening damage to the tree. Native trees and shrubs especially are ill-suited to this kind of pruning.

#### ***Southern California Context - LA Is Different***

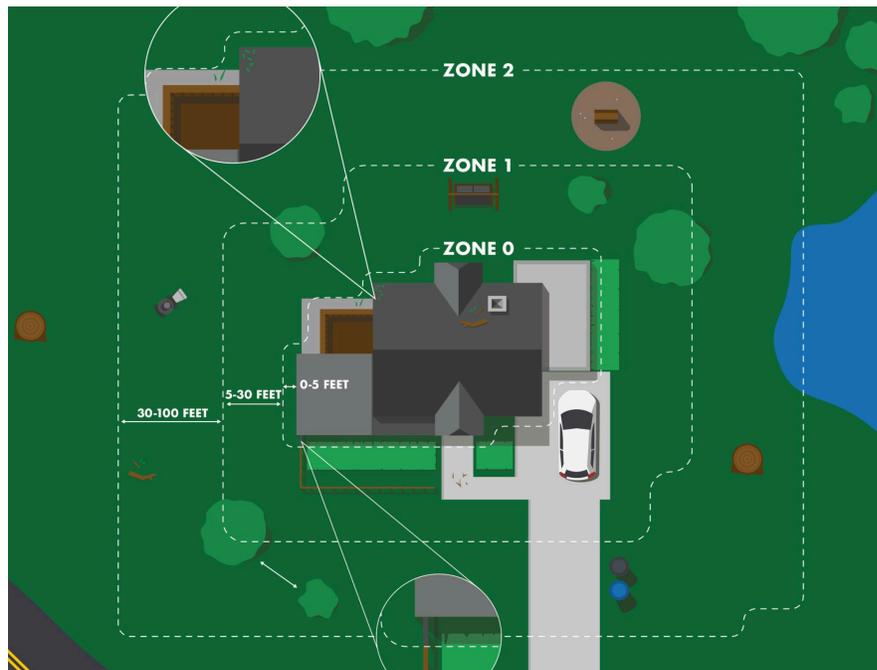
The state's proposed regulations impose a one-size-fits-all solution on an enormous state with vast differences. Many of the underlying case studies, graphics, and demonstration projects used in devising the rules were based on conditions more commonly found in forested areas in Northern California. LA's hillside communities, however, are a mix of irrigated landscapes, over-cleared and degraded hillsides, native chaparral, and ever-expanding, often densely-built residential areas. LA's wildland-urban interface areas – distinct from Northern California – make fire behavior more complex and firefighting more challenging. In a letter to the Zone 0 Advisory Committee, the nonprofit wildfire advisory group [MySafe:LA](#) urges it to “explicitly recognize the geographic and structural differences between Northern and Southern California. In Southern California, particularly in Los Angeles County, many homes are situated in densely populated neighborhoods with limited setbacks, multistory construction, and closely spaced neighboring structures. These conditions sharply contrast with many Northern California communities, where larger parcels and greater opportunities for defensible space exist.”

Additionally, the hotter, drier climate, combined with persistent drought, Santa Ana winds and highly-flammable invasive species, complicate fire management and highlights the necessity of creating strategies specifically tailored to Southern California's conditions.

Despite the requirement for local input, Los Angeles City and LAFD officials have thus far not been included in discussions on the proposed changes, nor has the Board of Forestry's Zone 0 Advisory Board visited the region to observe local conditions first hand. Only after persistent pressure from local advocates has the Board of Forestry agreed to hold a meeting in Southern California in September of 2025, six months into the rulemaking process.

### Relevant Research

The current state proposal reflects fire hazard conditions more typically found in forested areas common to Northern California. The graphic illustrating Zone 0 on the [Board of Forestry website](#) shows a large flat lot with ample property separation seldom found in LA's WUI zones.



Board of Forestry graphic shows a large flat lot more common in Northern California than LA's WUI areas.

But recent peer-reviewed studies on urban conflagrations in WUI areas – where fire spreads uncontrollably from structure-to-structure – have shown that building materials, home spacing, and moisture content in nearby vegetation are more predictive of home survival than the presence of nearby vegetation.

### Wind-Driven Fires

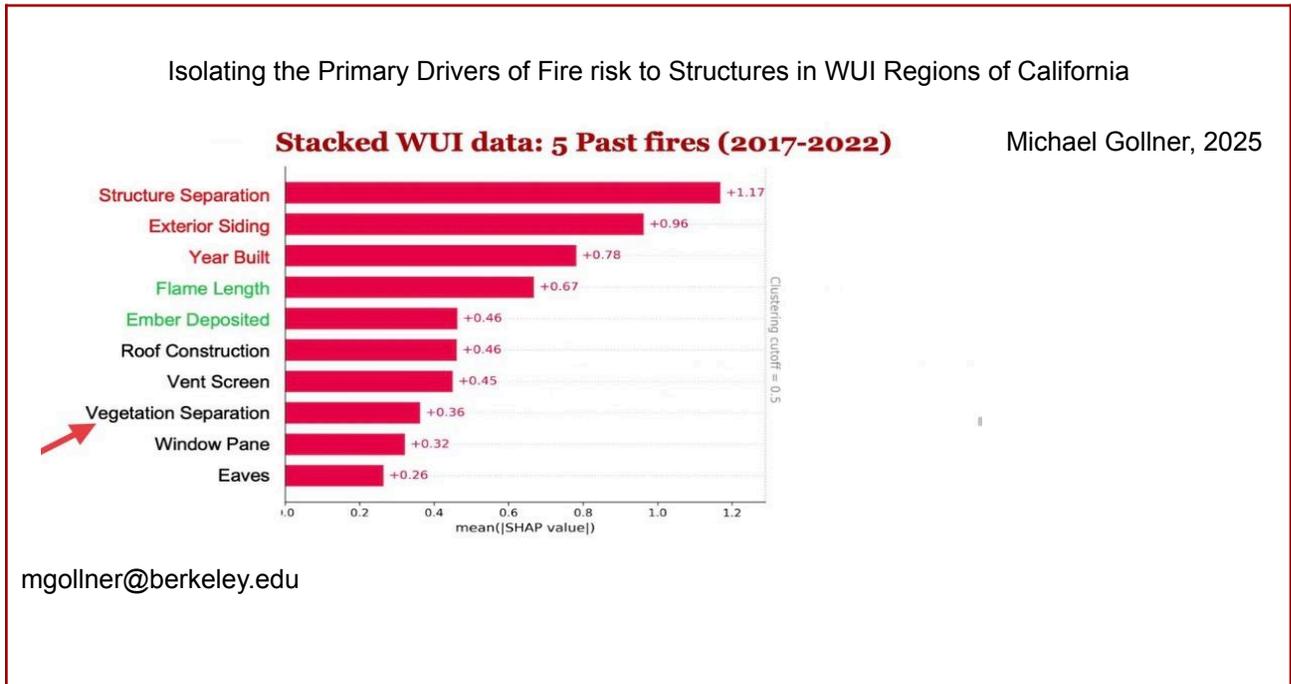
Following the January fires, US Geological Survey fire ecologist Jon Keeley observed to LAist that fires change when they go from chaparral to neighborhoods. “The bottom line is the winds far outweigh the fuel in terms of fire spread in a (high wind) situation like this. **When you have these winds it makes fuels less relevant. And the fuels are definitely not relevant once it gets into the urban environment, because the primary fuels are the homes.**”



Density is a major factor in spread of fire

**Structure Spacing and Home-Hardening**

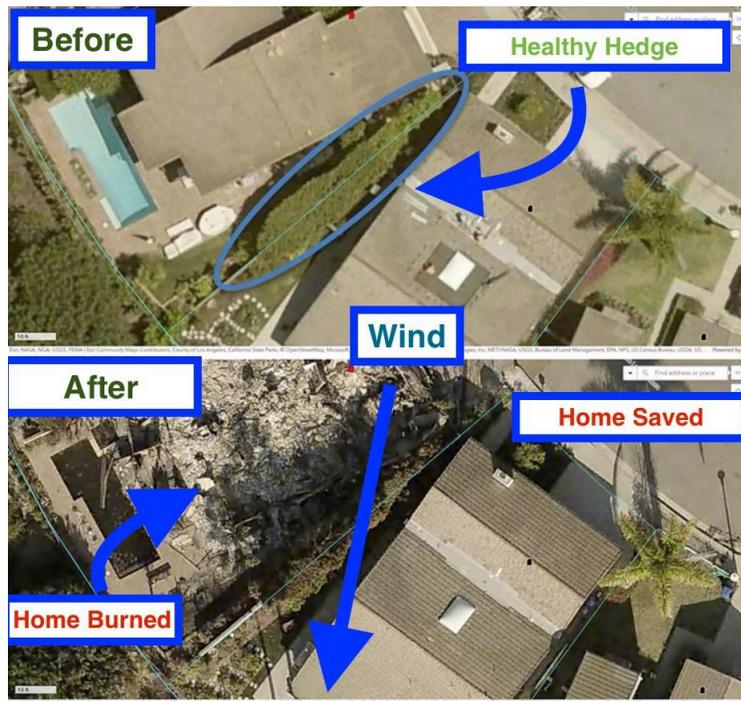
Once in the built environment, a wildland fire becomes an urban conflagration where characteristics of the homes and businesses become primary factors of fire spread. A 2025 study analyzing five California fires from 2017 - 2022, showed that of ten primary drivers measured as factors for fire risk, *structure spacing was the most significant*. “Vegetation separation” (defensible space) was eighth, though the models did not take into account the possible presence of *irrigated* vegetation which might have reduced its role even further. (*“Isolating the Primary Drivers of Fire Risk to Structures in WUI regions in California,”* Michael Gollner, et al. 2025.)



In urban conflagrations, home hardening is also more predictive of structure survival than proximity to vegetation. A study of the 2018 Woolsey fire in which more than 1,600 homes were lost, high-resolution data analysis shows vegetation around buildings explained very little about structure loss. **“Despite detailed pre-fire information on vegetation around nearly 11,000 buildings, we did not find a critical role for vegetation in defensible space in relation to building outcomes after the Woolsey Fire. Instead, building materials and landscape attributes were higher-ranking in variable importance.”** (“Using high-resolution land cover data to assess structure loss in the 2018 Woolsey Fire in Southern California” Miranda H. Mockrin, Dexter H. Locke, Alexandra D. Syphard, Jarlath O’Neil-Dunne. Journal of Environmental Management, 2023.)

**Protective Properties of Vegetation**

In many cases, trees, especially oaks and other large trees and hedges can offer protection in wind-driven fires by catching embers and slowing winds. In an article for the LA Times, wildfire researchers Max Moritz and Luca Carmignani cautioned against mandating the removal of vegetation that could prove protective in urban fires. “Green, well-maintained plants can slow the spread of a fire by serving as heat sinks, absorbing energy and even blocking embers.” The moisture in well-hydrated plants stops the flames like green firewood. “When well-watered, living plant material is heated by a nearby energy source, such as a fire, the moisture inside it must be driven off before it can ignite. That evaporation cools the surrounding area and lowers the plant’s flammability.” (Moritz and Carmignani - LA Times) While most healthy vegetation offers some protection, fire-adapted native oaks are particularly effective as has been stated clearly by public agencies such as the Resource Conservation District of the Santa Monica Mountains (see: <https://youtu.be/tKc66QITkr8>).



Photos before and after the 2025 Palisades fire show thick green vegetation between two closely spaced homes. The arrow shows the direction of the fire’s spread. When surviving plants appear scorched after these fires, it is often on the side of the plant facing a nearby structure that burned. That suggests that wind-blown embers ignited houses first: The houses were then the fuel as the fire spread through the neighborhood. (Max Moritz; Cal Fire damage inspection photos)

Plant health and hydration are key to fire resilience:

- US Forest Service scientists showed that moisture content in trees correlates with lower structure loss. (“*Exploring urban vegetation type and defensible space’s role in building loss during wildfire-driven events in California*” Landscape and Urban Planning. Escobedo et al, 2025.)
- Plant moisture data based on NDWI\* (Normalized Difference Water Index) data confirms that irrigation and plant hydration are key fire-resistance variables. (Escobedo et al. 2025)
- Historic orchard buffers reduced fire spread in LA suburbs like Altadena. “The urban environment was surrounded by citrus orchards. And that’s what buffered the communities from the wildland areas. And if fires ... burned into them, they generally burned out. Today, we don’t have citrus orchards. We just have more homes.” (John Keeley, Interview with [The Smokey Wire](#).)

\*The Normalized Difference Water Index (NDWI) is a new method that has been developed to delineate open water features and enhance their presence in remotely-sensed digital imagery. The NDWI makes use of reflected near-infrared radiation and visible green light to enhance the presence of such features while eliminating the presence of soil and terrestrial vegetation features.

### **Board of Forestry Research**

The Board of Forestry has relied heavily on data from the Insurance Institute for Business and Home Safety (IBHS) – the insurance industry’s research arm – in developing its proposed regulations. IBHS’ experiments and demonstrations routinely cast vegetation in the role of primary culprit for fire spread, even when these tests fail to accurately or fully simulate real on-the-ground conditions. [One IBHS demonstration contrasted](#) the performance of a structure benefitting from home-hardening and Zone 0-protections with a test structure that included a Zone 0 non-compliant wooden fence and adjacent wood pile along with no hardening improvements. Not surprisingly, the more vulnerable structure burned more quickly. Given the insurance industry’s vested interest in California fire policy, these test results cannot be considered unbiased. Insurance companies benefit from simplified rules that facilitate remote inspections, and streamline policy and claims disputes. Environmental impacts are likely not a consideration. (The insurance industry is pressing hard for these restrictive rules. With insurance companies starting to pull out of California, legislators and regulators may be feeling pressure to comply.)

### **Unintended Consequences**

The specifics of the Board of Forestry’s proposed guidelines are in conflict with realities of Southern California’s unique ecology, the density of the built environment, and environmental vulnerabilities.

When Assemblymember Laura Friedman authored AB3074 creating an *ember-resistant zone*, she considered these conditions, emphasizing the importance of preserving native species and weighing impacts on soil erosion, shade, and aesthetics and instructed the Board of Forestry to do the same. Noting that the Zone 0 Committee’s proposed *non-combustible* zone does not reflect those concerns, now Congresswoman Friedman wrote to the chair in July 2025, urging him to “**publish a guidance document that provides regionally appropriate vegetation management suggestions that preserve and restore native species** that are fire resistant or drought tolerant, or both.” She reminded the Committee that the bill “calls for fuels to be maintained in a condition so that **wildfires burning under average weather conditions** will be unlikely to ignite structures nearby” and urged the Board to “**prioritize regulations that are both scientifically informed and reasonably attainable to ensure maximum compliance.**”

MySafe:LA echoes that sentiment in [their letter to the committee](#): “We strongly caution against a universal mandate to eliminate all vegetation within the 5-foot Zone 0, including in new construction. It is ... important to emphasize that the original 2020 legislation (AB 3074) called for an “ember-resistant” zone—not an “ember-free” one. The distinction is critical. While there is no guarantee that any hardened home will survive a wildfire, the spirit of this legislation is not to create absolute prevention of ignition, but rather to reduce the scale of wildfire destruction by improving structure survivability. **A flexible, science-informed approach is more likely to meet this intent than a rigid ban on all vegetation within Zone 0.**

Flexibility and common sense are key. A bipartisan coalition of Oregon legislators are currently moving to revoke the state’s fire maps in order to free residents of “costly home hardening measures and strict defensible space mandates” that go along with them. As one State Senator put it, “Repealing the fire maps and associated government overreach cannot wait. Oregonians have lost too much of their lives and resources worrying about this issue already. Many of them fear they will not be able to continue living in their houses.”

The rules as currently proposed place a huge burden on property owners, imposing *known current* harms in an effort to reduce the risk – with debatable effectiveness – of *possible future* harms.

### III. Impact and Key Considerations

The reaction to disasters like the fires of January of 2025 is often to enact extreme and prescriptive safety measures, but there is a risk of letting fear and “the need to do something” override science-based decision making. Policymakers should resist the impulse to impose inappropriate models state-wide when flexibility might offer more regionally appropriate and effective and ultimately, less costly, solutions.

The state’s proposed regulations are a well-meaning attempt to protect our communities, but their implementation could cause widespread negative impacts. In addition to loss of habitat and biodiversity, these include rising temperatures and increased energy use, inequitable impacts, and a cascade of other unintended consequences that will fall at the front door of the City Council and virtually all city departments. Los Angeles residents will be looking to city officials to demonstrate good stewardship of LA’s unique ecosystem and find both constructive and effective solutions.

#### Key Impacts

##### ***Ecological - Biodiversity***

- **Compromise LA’s Unique Biodiversity:** Los Angeles is a biodiversity hotspot, meaning that while it is home to an exceptionally high concentration of endemic species, its native biodiversity is also under threat. The removal of hundreds of acres of trees and other vegetation would exacerbate that threat.
- **Undermine LA’s Biodiversity Goals:** LASAN’s Biodiversity Program has established a set of broad biodiversity goals to ensure “that ecosystems are protected, enhanced, and restored, environmental and public health benefits are maximized and equitably shared by all, and that Los Angeles is a resilient, biophilic City for generations to come.” Adopting the current Zone 0 regulations is in conflict with those goals.
- **Loss of Tree Canopy:** Interactive [GIS maps](#) produced by LA County quantify the potential tree loss. Across 37,381 VHFHSZ acres in Los Angeles, approximately 1,783 acres (4.7%) of canopy fall within Zone 0. High-loss communities include Silver Lake (18%), and Echo Park (16%).

| <b>Neighborhood</b> | <b>CD</b> | <b>Acres</b> | <b>% Tree Canopy</b> |
|---------------------|-----------|--------------|----------------------|
| Silver Lake         | 13/4      | 108          | 18                   |
| Echo Park           | 13        | 26           | 16                   |
| Eagle Rock          | 14        | 83           | 12                   |
| Highland Park       | 1/14      | 53           | 12                   |
| Hollywood           | 13        | 76           | 11                   |
| Chinatown           | 1         | .29          | 11                   |
| Pacific Palisades   | 11        | 113          | 8.9                  |
| Hollywood Hills     | 4         | 147          | 7.6                  |
| Sherman Oaks        | 4         | 108          | 7.7                  |
| Shadow Hills        | 7         | 20           | 6.6                  |
| Porter Ranch        | 12        | 25           | 5                    |
| Encino              | 4         | 104          | 4.7                  |
| Beverly Crest       | 5         | 105          | 3.9                  |



*AI Rendering shows that some residences like this apartment building on Franklin Ave. in Hollywood could see a significant loss of surrounding vegetation.*

- **Loss of Habitat:** In addition to the trees are the shrubs, ground cover and young trees that could be lost. The County GIS maps only capture data on trees over 10', so the vegetation loss would be far greater than indicated. Vegetation (especially native plants) provides forage and shelter for wildlife such as bugs, birds, lizards and mammals. Hedges are like condos for local birds. Even street trees play a crucial role. While connectivity is crucial, analysis of urban wildlife shows even small yards and areas with sparse vegetative cover can also have ecological value and can benefit bird populations. ([“The ecological role of native-plant landscaping in residential yards to birds during the nonbreeding period”](#) Smallwood & Wood 2023)
- **Landscape Type Conversion:** Excessive clearing can lead to “Landscape Type Conversion,” where sage scrub, chaparral, or other habitat type is converted to non-native, weedy grasslands, destroying habitat and increasing the risk of wildfire.
- **Disruption of Bird Nests:** Removing or disturbing wild bird nests is illegal in California. The removal of thousands of acres of trees and hedges would impact countless nesting bird pairs and require widespread education to avoid illegal destruction.
- **Weakened Trees:** Tree health and structural integrity may be severely impacted if limbed up or “broccoli-topped” to avoid structures as a result of the new rule requiring all limbs be removed within 5 feet of walls.

- **A City Defined by “Defensible Space”:** Zone 0 worsens an already excessive vegetation clearing regimen. Given the tree and shrub spacing required in Zones 1 and 2, with the addition of Zone 0, instead of landscaping, the majority of the city’s green space and yards will become “defensible space” and hardscape. Spacing plants unnaturally far apart destroys plant communities, leaves openings for flammable invasives to become established, creates wind tunnels and openings for wind-driven embers, and may lead to soil degradation, dehydration and destabilization.

***Ecological - Other***

- **Increased Wildfire Risk:** Removal of healthy, well-irrigated landscape vegetation creates an opening for the establishment of invasive and highly flammable mustard and grasses. Overclearing vegetation can also create “wind tunnels” that accelerate ember spread, especially after moisture-retaining vegetation is removed.
- **Increased Mudslide Risk:** Excessive clearing removes stabilizing vegetation, dries out soil, and increases the risk of mudslides and flooding.
- **Increased Carbon Emissions:** A hotter city means more electricity use for air conditioning. Embedded carbon in new concrete hardscape, replacement metal fencing, and masonry walls will not only increase heat but also exacerbate climate change.
- **Increased Heat and Pollution:** A reduced urban tree canopy will increase the heat island effect, reduce the pollution-mitigating properties of trees, and increase the use of electricity for cooling which contributes to the climate crisis.

***Public Health***

Trees play a crucial role in a community’s overall well-being, providing mental and physical health benefits, and saving lives during excessive heat events. At a time when we need to be adding shade to protect residents from the growing threat of climate change, Zone 0 will be contributing to these impacts:

- **Loss of shade and increased heat:** Excess heat kills on average more than 200 residents in LA County per year and leads to hundreds of hospitalizations. Trees don’t just shield us from the sun, they are natural air conditioners and can lower air temperatures up to 10 degrees on a very hot day, a difference that lowers the death risk from heat.
- **Inequitable Distribution of Impacts:** Because they have so few trees to start with, neighborhoods with the smallest tree canopies will suffer the largest percentage losses under Zone 0, and suffer disproportionate impacts especially if they are in high heat severity areas.
- **Loss of Mental Health Benefits:** Exposure to urban nature creates a sense of belonging and connection to community. Lack of nature can lead to increased stress, anxiety, and depression. Children may also experience learning impairments and difficulties with emotional regulation.
- **Loss of Walkability:** Front yard and street trees provide pedestrian shade. Their removal means more time indoors.

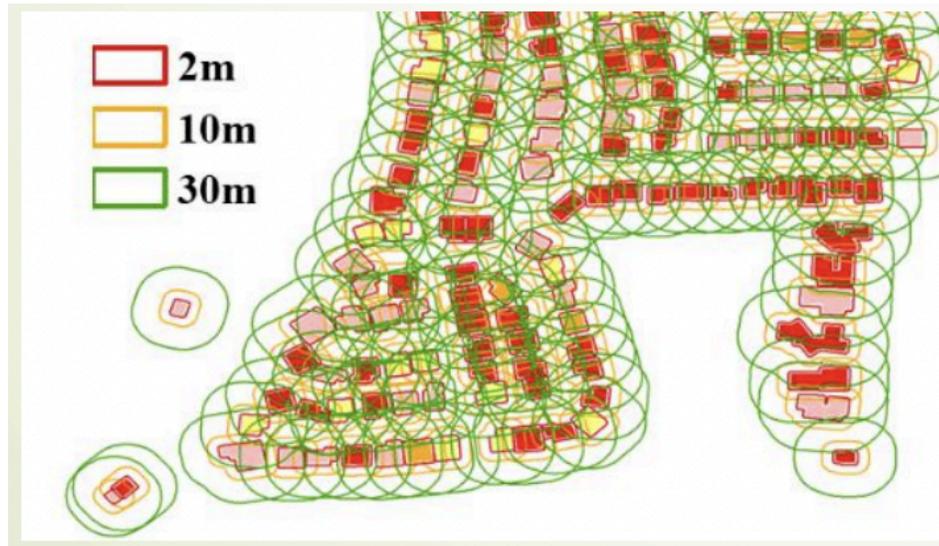
***Social***

Removing tens of thousands of trees and untold tons of vegetation from neighborhoods with disparate resources will strain the fabric of society.

- **Expanded [Fire Severity Zone Maps](#) Hit Low-Income Neighborhoods Hardest:** Areas never before subject to brush clearance requirements will now face the costs and impacts

of these new rules. Communities like Thai Town, Hollywood, and Chinatown could see a loss of up to 40% of tree cover and the loss of potential for *expanding* their tree cover.

- **Homes on Small Lots Face Outsize Impacts:** Losing two trees in a yard with four trees means a 50% reduction in shade and green space. The 0-5' clearance zone may also mean no side yard vegetation for these homes.
- **Conflict with City Laws:** Mandated tree removal or aggressive limbing may violate the City's Protected Tree Ordinance. Mandated planting of Protected Tree *replacement* trees would also conflict with Zone 0 requirements.
- **Impact on Aesthetics, Privacy, and Quality of Life:** Loss of vegetation will mean a hotter, uglier, less safe living experience and loss of privacy, especially for homes with smaller yards.
- **Impact on Cultural and Educational institutions:** Landmark properties such as UCLA and the Getty Museum could see the removal of historic gardens and green space.
- **Impact on ADUs and Outbuildings:** Compliance with Zone 0 boundaries could push homes, ADUs, and sheds into conflict with Zone 0 boundaries of neighboring properties, requiring vegetation removal by the neighbor. (Escobedo, Maranghides) See photo below of overlapping zones in an urban area (Escobedo).



- **Homeowner Revolt:** The rules make no allowance for appeals on clearance mandates for rare or valuable specimen plants or for plants that can retard fire. Residents are already vowing to refuse to comply, creating conflict with fire inspectors and other city officials. Potential loss of property values and flight of homeowners to other states.

### ***Economic***

A significant portion of Angelenos and the City itself will be negatively impacted economically by the proposed regulations:

- **Impact on green waste system:** Estimated amount of vegetation and combustible material that will need to be removed will be in the hundreds of thousands of tons. Current green waste processed is 620,000 tons/year.
- **Homeowner Vegetation and Wood Fencing/Gate Removal:** Minimum estimate of average cost of compliance is \$13,000 per home

- **Municipal Vegetation Removal:** An unprecedented strain on the city's waste management system
- **Rebuilding, Repairing and Replacing:** Once cleared, impacted properties will need new hardscaping and fencing and possible repairs. Hillside properties may need geological surveys and retaining walls to shore up slopes left newly vulnerable by the loss of stabilizing vegetation. The average estimated expense is in the tens of thousands of dollars and where extensive retaining walls are required, costs could go into six figures
- **Utility Bills:** Hotter homes mean more air conditioning use, greater peak-period electricity use, and an estimated minimum 5% increase in electric bills for all customers, and reduced electrical system reliability. Existing infrastructure may not support the increase in demand
- **Loss of economic value of trees:** TreePeople estimates that for each dollar invested in an urban tree in California, \$5.82 in benefits are generated

AB3074 instructs the Department of Forestry and Fire Protection to “pursue collaborative approaches to achieve compliance with new defensible space requirements, taking into account property owners’ financial resources and the scope of work necessary to achieve compliance.” The Zone 0 Advisory Committee has indicated that some funding will be available, primarily to low-income households but would likely not be adequate to cover the most costly modifications.

#### ***Urban Street Trees, Drought, and Risk Considerations***

Per Bureau of Streets Services (Streets LA) Los Angeles faces a growing street tree maintenance backlog, with its 17-year trimming cycle far exceeding the recommended 5-7 years for its 654,000 trees. This leads to increased deadwood and compromised limbs, elevating fire and safety risks, especially in high winds.

In the Very High Fire Hazard Severity Zone (VHFHSZ), 637 of approximately 6,400 trees are dead, and the rest need trimming. Without dedicated funding, the City faces liability for unmaintained trees linked to fires or public safety issues.

This zone also has 787 vacant tree well sites that may never receive planting. Additionally, Zone 0 implementation may require removing existing street trees where 7-foot sidewalks and property-line structures eliminate replanting, causing permanent canopy loss, particularly in vulnerable, already treeless communities.

Street trees are crucial for urban water cycles, capturing stormwater, enhancing infiltration, and cooling the environment through transpiration, which aids climate adaptation and fire resilience. Restrictive Zone 0 interpretations could undermine water conservation and heat mitigation goals by removing this vegetation.

Los Angeles’ street trees provide essential shade, a stated goal to increase for our city. Ensuring these trees are maintained — not removed — should be a critical component of LA’s fire resilience strategy.

#### ***Enforcement and Impact on the LAFD***

It will fall to the LA Fire Department to enforce these new clearance requirements and add to an already challenging workload. LAFD is currently tasked with inspecting about 155,000 properties a year and can make physical inspections of only a small fraction of those. Although LAFD is prepared to follow the law, there will be challenges with the addition of a mostly vegetation-free Zone 0.

#### ***Workforce Capacity***

- With the expanded Fire Hazard Severity Zone maps, the number of properties LAFD requiring inspection may increase by 25-30,000.
- The Department employs 5-6 inspectors for every 10,000 properties in the VHFHSZ, meaning an additional 12-18 inspectors, plus support staff and at least one new Captain.

- Estimated personnel cost will be about \$2 million.
- The Department also anticipates increasing the use of drone and satellite technology to facilitate inspections.

***Additional Challenges***

- **Homeowner resistance:** Grassroots opposition is emerging in reaction to Zone 0 with many homeowners already vowing to refuse to comply. There is concern about possible conflicts with fire inspectors which could increase legal actions, costs, and the time LAFD spends on citations and legal actions.
- **Homeowner disputes:** Overlapping Zone 0 areas could lead to disputes between neighbors over whose tree or structure must be modified or removed
- **Outreach:** Education and communication will be essential for compliance but there are concerns about funding and execution.
- **Conflict with insurance companies:** Both entities do property inspections. Who has ultimate authority?

#### IV. Recommendations

Given the long list of negative impacts likely to result from the current proposed Zone 0, City officials could reasonably advocate before the Zone 0 Advisory Committee for appropriate defensible space regulations that would protect the city's overall ecosystem health while enhancing fire safety.

The following specific recommendations are offered to reduce the environmental impacts of the proposed rules:

- **Exempt healthy, hydrated and well-maintained vegetation that is “not likely to be ignited by embers”:** The *moisture content* of vegetation is far more predictive of fire spread than the *presence* of vegetation.
- **Focus on maintenance and irrigation:** Well-maintained and well-hydrated vegetation in Zone 0 is not a source of fire spread and is consistently shown to slow fire progress.
- **Prioritize fire adapted native plant species as appropriate:** Because they evolved with fire, some native plants offer protective qualities such as thicker bark and greater moisture retention that can limit a fire's ability to spread.
- **Explicitly exempt locally protected native trees and shrubs from all tree regulations:** These plants are essential for biodiversity and in most cases, adapted to and resilient to fire.
- **Explicitly exempt historic and heritage trees:** These majestic trees can define a neighborhood and their size makes them unlikely to burn in a fast-moving wildfire.
- **Explicitly exempt living municipal street trees:** Live, well-maintained municipal street trees should not be subject to mandatory removal within Zone 0, consistent with current L.A. Municipal Fire Code. If well pruned and maintained the threat is minimal in most cases, but the loss of shade would be devastating, especially to tree-poor communities.
- **Allocate targeted defensible space resources for dead tree removals and hazardous limb mitigation.**
- **Acknowledge and integrate urban water cycle benefits of street trees into defensible space and vegetation management policy.**
- **Allow for an appeals process:** Special cases for particular trees or circumstances should be allowed the possibility of additional consideration.
- **Move away from a one-size-fits-all approach:** An urban area in chaparral vegetation should not be treated the same as a rural setting in a coniferous forest—the strategies to reduce fire risk are not the same and the risks are inherently different.
- **Fund educational campaigns on vegetation management and home hardening:** Because vegetation maintenance and home-hardening are more reliable predictors of survivability, funds should be directed to education in these areas.
- **Give flexibility to local fire departments and their inspectors:** Fire inspectors regularly assess the condition of vegetation and the likelihood it will contribute to the spread or intensity of a fire. We should respect their expertise and allow them to do their jobs.
- **Ban artificial turf by name from defensible space:** An earlier draft of the Zero Zero proposed regulations called for the ban of artificial turf from Zone Zero, but this was removed at the behest of lobbyists. Restore a ban for this product from all defensible space, as artificial turf has the highest heat generating index of any building material, and it releases toxic fumes during a fire that threaten the health of first responders.

As the research shows, the urban wildfire problem is not principally with vegetation, it is with high density construction in WUI areas, inadequately defended structures, and invasive plants causing habitat degradation or loss. The focus of the state from both a policy and investment standpoint should not be on

healthy vegetation removal but on home hardening and other defensive measures such as rooftop sprinklers and pool pumps. AB3074 includes a home hardening component, instructing the State Fire Marshal to “develop a list of low-cost retrofits that provide for comprehensive site and structure fire risk reduction to protect structures from fires spreading from adjacent structures or vegetation and to protect vegetation from fires spreading from adjacent structures.” Yet no action has been taken by the State Fire Marshal, nor ordered by the Governor. The state PRC Code 4291 (a) (1) (B) also allows for a balancing of approaches to fire protection, **“the amount of fuel modification necessary shall consider the flammability of the structure** as affected by building material, building standards, location, and type of vegetation.”

Though it is not in the purview of the Board of Forestry’s Zone 0 Committee to consider the structure itself in its guidelines, the research provided herein suggests a more holistic and flexible approach to wildfire safety would achieve substantial, scientifically-supported protection without sacrificing the multiple, invaluable benefits of trees and other vegetation.

The City of Los Angeles could support that approach by issuing recommendations for property owners and responsible parties for additional fire safety strategies such as Home Hardening, On Site Water Retention, and Landscape Strategies and Management/Stewardship. Recommendations regarding select strategies are included in Appendix B.

## V. Conclusion

Based on the research and data presented in this report, the proposed removal of essentially all vegetation in Zone 0 will not necessarily reduce fire risk, it may in fact exacerbate it. Additionally, the cost of such drastic measures as proposed by the Zone 0 Advisory Committee will be enormous to the City and its residents, both financially and environmentally.

By opposing these regulations as currently proposed and promoting fire-resilient development and stewardship practices, the City of Los Angeles can significantly reduce fire vulnerability and the costs associated with wildfire damage without the associated harm to the city's biodiversity. Implementing the recommendations outlined in this report citywide will help to increase public safety and support the resilience of communities in the face of increasingly destructive wildfire events.

**As of the submission of this report, the Zone 0 Advisory Committee plans to hold a public workshop in the Los Angeles area on the afternoon of Thursday, September 18, 2025, where in-person and remote public comment will be taken. The meeting location and time have not been announced. We strongly encourage Councilmembers – especially those whose districts include high fire hazard areas – to attend this meeting and urge advisory board members to create guidelines that will work for *all* of California. A position letter from the City of Los Angeles to the Board of Forestry and the Governor will also be essential to ensure these regulations are appropriate for the City of Los Angeles.**

The Zone 0 Advisory Committee expects to meet on Monday September 22nd in Sacramento, just days after the Southern California meeting, presumably to finalize proposed draft regulations. The finalized regulations would then likely be presented to the full Board of Forestry for review and approval in October and then to the Governor for approval by the end of this calendar year.

To receive emails about upcoming meetings, subscribe to Board of Forestry notifications here: <https://list-manage.us20.list-manage.com/subscribe?u=172af298a6a70bf21ef09866c&id=f9d930c4f0>

## VI. Relevant City Contacts

### A. Community Forest Advisory Committee

CF 10-2468-S2 Ad Hoc Report Back Subcommittee:  
Cyndi Hubach - Subcommittee Chair, CD 13 Alternate Representative  
Joanne D'Antonio - CFAC Chair, CD 2 Representative  
Marianne King - CD12 Representative  
Lynnette Kampe - CFAC Secretary, CD1 Alternate Representative

### B. Los Angeles Fire Department

Chris Thyfault, Brush Clearance Captain.  
David Perez, Fire Marshall  
Ronnie Villanueva, Interim Fire Chief

### C. Contacts for More Information

1. Travis Longcore – Urban Ecologist, Adjunct Professor - UCLA Institute of the Environment and Sustainability. [longcore@urbanwildlands.org](mailto:longcore@urbanwildlands.org)
2. John Todd – Wildland Fire Consultant, Retired Deputy LAFD Fire Prevention Bureau, former L.A. County Fire Department Deputy Chief. [frstrydude@verizon.net](mailto:frstrydude@verizon.net)
3. Greg Rubin – Landscape designer / leading expert in native landscaping and fire resilience. [greg@calowndesign.com](mailto:greg@calowndesign.com)
4. Francisco Escobedo – Research Social Scientist at USDA Forest Service Pacific Southwest Research Station. [Francisco.Escobedo@usda.gov](mailto:Francisco.Escobedo@usda.gov)

## Appendix A

### August Zone 0 Rule Plead of the Board of Forestry Zone 0 Advisory Committee (as it appears with their deletions and revisions on their website)

Below is draft rule text that the Zone 0 Regulation Advisory Committee will discuss at a public workshop on Monday August 18 2025. The Board invites comments on all provisions of the draft rule text.

**Board of Forestry and Fire Protection**  
**Defensible Space Zone 0**  
**Title 14 of the California Code of Regulations**  
**Division 1.5, Chapter 7,**  
**Subchapter 3 Article 3**

#### § 1299.01. Purpose.

The intent of this regulation is to provide guidance for implementation of Public Resources Code Section 4291 to improve safety for fire fighters defending a home as well as increase the survivability of a "Building or Structure" as defined, ~~that exists in grass, brush, and forest covered lands~~ within the designated State Responsibility Area (SRA) of California.

Note: Authority cited: Sections 4290 and 4291, Public Resources Code. Reference: Section 4291, Public Resources Code.

#### § 1299.02. Definitions.

The following definitions apply to this article:

(a) Attached: Directly connected or affixed to a Building or Structure.

(b) Building or Structure. Anything constructed that is designed or intended for support, enclosure, shelter, or protection of persons, animals, or property, having a permanent roof that is supported by walls or posts that connect to, or rest on the ground. A Building or Structure, for the purpose of an ember-resistant zone, includes an attached deck.

(c) Combustible: Vegetative, wood, or petroleum-based materials that are likely to ignite and transmit flames.

~~(d)~~ Defensible space. The buffer that landowners are required to create on their property between a "Building or Structure" and the plants, brush and trees or other items surrounding the "Building or Structure" that could ignite in the event of a fire.

(e) Existing Building or Structure. An Existing Building or Structure is a Building or Structure other than a New Building or Structure.

(f) New Building or Structure. A New Building or Structure is a Building or Structure that did not exist prior to the effective date of the regulation that added this subsection.

(g) Outbuilding. Buildings or Structures that are less than one hundred-twenty (120) square feet in size and not used for human habitation. For purposes of this Section, an-“Outbuilding” is not a “Building or Structure” as defined in subsection (b) above.

Note: Authority cited: Sections 4290 and 4291, Public Resources Code. Reference: Section 4291, Public Resources Code; and Sections 18908 and 18917, Health and Safety Code.

§ 1299.03. Requirements.

Defensible space is required to be maintained at all times, ~~whenever flammable vegetative conditions exist.~~

(a) One hundred feet (100 ft.) of defensible space clearance shall be maintained in ~~two~~ three distinct “Zones” as follows: Zone 0 is the area within five feet (5 ft.) around each Building or Structure or to the property line, whichever comes first. “Zone 1” extends from five (5ft.) to thirty feet (30 ft.) out from each “Building or Structure,” or to the property line, whichever comes first; “Zone 2” extends from thirty feet (30 ft.) to one hundred feet (100 ft.) from each “Building or Structure,” but not beyond the property line. ~~The vegetation treatment requirements for Zone 0 are more restrictive than for Zone 1; the requirements for Zone 1 are more restrictive than for Zone 2; as provided in this section (a) and (b) below.~~ The Department of Forestry and Fire Protection’s “Property Inspection Guide, 2000 version, April 2000,” provides additional guidance on vegetation treatment within Zone 1 and Zone 2, but is not mandatory and is not intended as a substitute for these regulations.

(b) Zone 0 Requirements:

(1) No landscaping materials that are likely to be ignited by embers are permitted within Zone 0. This includes, but is not limited to grass, ornamental or native plants, shrubs, fallen leaves and tree needles, weeds, and combustible mulches including bark and woodchips.

(A) Exception: Plants in pots are allowable if they are in areas that are not directly beneath, above, or in front of a window, glass door, or vent; are kept in an unaffixed, not combustible pot or container that is no larger than five (5) gallon capacity; and set apart by one and a half (1.5) times the height of the plant or twelve inches (12”), whichever is greater, from the structure and each other. These plants shall be no greater than 18 inches in height. Dead or dying material on the plants shall be removed.

(2) Trees within Zone 0 shall be maintained so that there are no dead or dying branches. All live tree branches shall be maintained five feet (5’) above the adjacent Building or Structure’s roof,

ten feet (10') away from chimneys and stovepipe outlets, and five feet (5') away from the sides of any Building or Structure.

(B) Exception: this subdivision does not apply to single specimens of trees or ~~other vegetation~~ that are well-pruned and maintained so as to effectively manage fuels and fuel ladders, as provided in Public Resources Code Section 4291.

(3) No items that are likely to be ignited by embers are permitted within Zone 0, including but not limited to combustible boards, timbers, firewood, ~~Combustible~~ petroleum-based products, window boxes, and trellises. The roof and rain gutters of a Building or Structure shall be kept clear of leaves and needles. The area under decks, balconies, and stairs shall be kept free from vegetative material and combustible items.

(4) Combustible gates shall not be directly adjacent to or attached to a Building or Structure.

(5) Fences that are directly attached to a Building or Structure shall have a five foot (5 ft) non-combustible span at the point of attachment. After the effective date of this regulation, ~~no new sections of Combustible fences~~ are permitted within five feet (5 ft) of a Building or Structure including an attached deck.

(6) Outbuildings are not permitted in Zone 0.

(7) The requirements for Zone 0 shall take effect for New Buildings or Structures upon the date that the guidance document, as described in PRC § 4291(e), is updated and for existing Buildings or Structures three years thereafter. Upon updating the guidance document, the Board shall post it on its website.

(8) For existing structures, the Department may allow work in stages to support implementation of Zone 0 and address the costs of compliance.

(a) Zone 1 Requirements:

~~(1) Remove all dead or dying grass, plants, shrubs, trees, branches, leaves, weeds, and pine needles from the Zone whether such vegetation occurs in yard areas around the "Building or Structure," on the roof or rain gutters of the "Building or Structure," or any other location within the Zone.~~

~~(2) Remove dead tree or shrub branches that overhang roofs, below or adjacent to windows, or which are adjacent to wall surfaces, and keep all branches a minimum of ten feet (10 ft.) away from chimney and stovepipe outlets.~~

~~(3) Relocate exposed firewood piles outside of Zone 1 unless they are completely enclosed in a fire-resistant material.~~

~~(4) Remove flammable vegetation and items that could catch fire which are adjacent to or under combustible decks, balconies and stairs.~~

(b) Zone 2 Requirements:

(1) In this zone, create horizontal and vertical spacing among shrubs and trees using the “Fuel Separation” method, the “Continuous Tree Canopy” method, or a combination of both to achieve defensible space clearance requirements. Further guidance regarding these methods is contained in the State Board of Forestry and Fire Protection's, “General Guidelines for Creating Defensible Space, February 8, 2006,” incorporated herein by reference, and the “Property Inspection Guide” referenced elsewhere in this regulation.

(2) In both the Fuel Separation and Continuous Tree Canopy methods the following standards apply:

(A) Dead and dying woody surface fuels and aerial fuels shall be removed. Loose surface litter, normally consisting of fallen leaves or needles, twigs, bark, cones, and small branches, shall be permitted to a maximum depth of three inches (3 in.).

(B) Cut annual grasses and forbs down to a maximum height of four inches (4 in.).

(C) All exposed wood piles must have a minimum of ten feet (10 ft.) of clearance, down to bare mineral soil, in all directions.

(ee) For both Zones 1 and 2:

(1) “Outbuildings” and Liquid Propane Gas (LPG) storage tanks shall have the following minimum clearance: ten feet (10 ft.) of clearance to bare mineral soil and no flammable vegetation for an additional ten feet (10 ft.) around their exterior.

(2) Protect water quality. Do not clear vegetation to bare mineral soil and avoid the use of heavy equipment in and around streams and seasonal drainages. Vegetation removal can cause soil erosion, especially on steep slopes. Keep soil disturbance to a minimum on steep slopes.

Note: Authority cited: Sections 4290 and 4291, Public Resources Code. Reference: Section 4291, Public Resources Code; and Sections 18908 and 18917, Health and Safety Code.

#### **§ 1299.05. Alternative Methods.**

The provisions of these regulations are not intended to exclude alternative methods not specifically prescribed by these regulations. A fire expert designated by the Director may approve alternative practices which provide for the same practical effects as those stated in these regulations within the SRA.

Within the LRA the authority having jurisdiction may choose to develop alternative practices for Zone 0 compliance that take into account local variation, including differences in geography, geology, ecology, city and county ordinances, and architecture.

Note: Authority cited: Sections 4290 and 4291, Public Resources Code. Reference: Sections 4291 and 4291.3, Public Resources Code.

## Appendix B Recommendations for Holistic Fire Resistance Strategies

These recommendations combine **home hardening, landscape stewardship, and water retention strategies** to reduce fire risk while balancing ecological health, urban livability, and housing needs. The approach emphasizes **incentives, flexibility, and education** rather than rigid one-size-fits-all rules, ensuring resilience across both hillside and urbanized areas of Los Angeles.

### Home Hardening

- Encourage **voluntary adoption** of fire-resistant construction practices beyond code requirements.
- Examples: **building placement with greater setbacks** from slopes and adjacent structures, retrofitting vents/eaves, fire-rated doors/windows, defensible space, fire-resistant landscaping, limiting combustible materials.
- Incentives:
  - **Streamlined permitting** for projects incorporating fire-resistant materials.
  - **Financial rebates** (e.g., fireproof roofs, rooftop sprinklers, dual-paned windows).
  - **Optional certification** (e.g., IBHS Wildfire Prepared Home) to improve insurance options.
  - **Support for natural materials** (adobe, cob, earth blocks).
- Expand project types required to comply with **Very High Fire Hazard Severity Zone (VHFHSZ)** standards.

**Resources:** CalFire Retrofit Guide, USGBC Wildfire Guides, CA Fire Code Chapter 49 & 7A, cost analyses.

### Landscape Strategies & Management

- Shift from “**brush clearance**” to “**vegetation management**”:
  - Prioritize removal of invasive/flammable species.
  - Properly maintain vegetation free of dead material
  - Promote native, fire-adapted plants.
  - Maintain ecological health (hillsides, watersheds, wildlife).
- Develop **best practices** such as through the Mayor’s Office Climate Cabinet (soil regeneration, invasive species management, fire-resilient plant palettes).
- Establish **tailored landscape standards** for VHFHSZ areas (hillsides vs. urbanized zones like Ventura Blvd., Hollywood, NE LA) avoiding conflicts with urban tree canopy protections
- Require **landscape inspections** and fees for compliance.

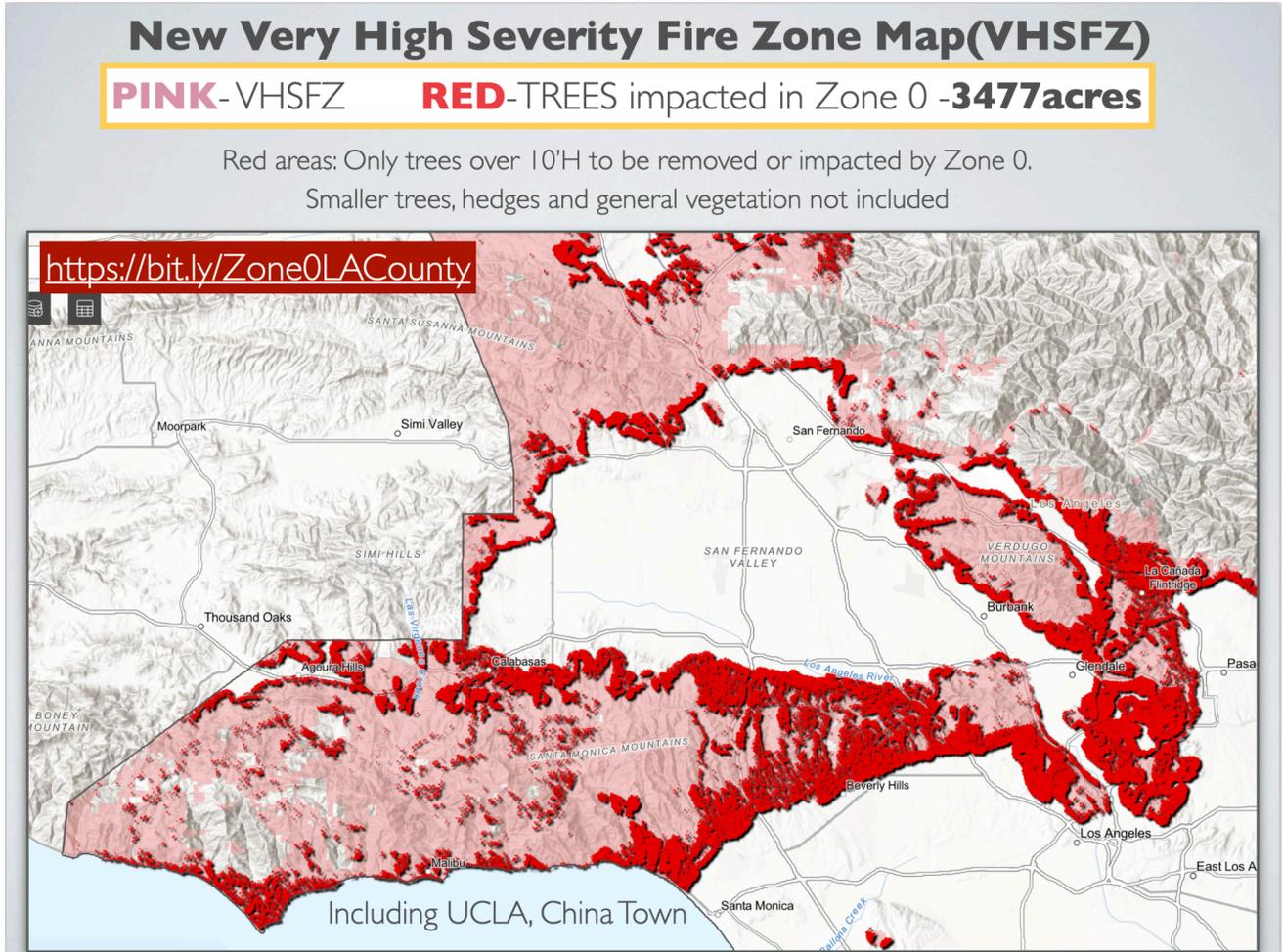
**Resources:** CA Native Plant Society Fire Guides, Post-Fire Restoration Manual, City of LA Forest Management guidance, CalFire standards (for reference and response).

### On-Site Water Retention Strategies

- Use **Low Impact Development (LID)** to capture and store stormwater for:
  - Irrigation (keeping landscapes green),
  - Fire suppression,
  - Dust control in burned/arid areas.
- Incentives: waived/expedited permits for voluntary LID adoption.
- Promote **rainwater harvesting systems** and **healthy soil strategies** (reduce compaction, increase moisture, create shaded/hydrated gardens).
- Encourage or require **pool pumps and rooftop sprinklers** in high fire hazard areas to support firefighting.
- Incentivize greywater systems in the VHFSZ. This is a waterwise way to abide by the AB3074 instruction to "minimize water consumption." Greywater systems sustainably hydrate plants and mitigate fire risk in Zone Zero while not utilizing potable water resources.

**Appendix C  
Additional Graphics**

**LA County map of affected areas in the Very High Fire Hazard Severity Zones.**



Homes protected by their vegetation that survive the Palisades fire:





ADOPTION OF THE 2025 CALIFORNIA WILDLAND-URBAN INTERFACE CODE AND CONSOLIDATING BERKELEY'S WILDLAND URBAN INTERFACE (WUI) FIRE CODES INTO A NEW BERKELEY MUNICIPAL CODE CHAPTER 19.49, AND REMOVING PREVIOUS WUI CODE REFERENCES FROM BERKELEY BUILDING CODE (BMC CHAPTER 19.28), BERKELEY RESIDENTIAL CODE (BMC CHAPTER 19.29) AND THE BERKELEY FIRE CODE (BMC CHAPTER 19.48)

BE IT ORDAINED by the Council of the City of Berkeley as follows:

**Section 1.** That Berkeley Municipal Code Chapter 19.49 is hereby introduced:

### **Chapter 19.49**

#### **BERKELEY WILDLAND-URBAN INTERFACE CODE**

##### **Sections:**

- 19.49.010 Adoption of the California Wildland-Urban Interface Code**
- Article 1. Scope and Administrative Provisions**
  - 19.49.020 Adoption of Chapter 1 Scope and Administration**
- Article 2. Definitions**
  - 19.49.030 Amendments to Chapter 2 Definitions**
- Article 3. Wildland-Urban Interface Areas**
  - 19.49.040 Amendments to Chapter 3 Wildland-Urban Interface Areas**
- Article 4. Wildland-Urban Interface Area Requirements**
  - 19.49.050 Amendments to Chapter 4 Wildland-Urban Interface Area Requirements**
- Article 5. Special Building Construction Regulations**
  - 19.49.060 Technical Amendments to Chapter 5 Special Building Construction Regulations**
- Article 6. Fire Protection Requirements**
  - 19.49.070 Amendments to Chapter 6 Fire Protection Requirements Including Defensible Space regulations**
- Article 7. Referenced Standards**
  - 19.49.080 Amendments to Chapter 7 Referenced Standards**
- Article 8. General Requirements**
  - 19.49.090 Adoption of Appendix A with amendments**

**19.49.010 Adoption of the California Wildland-Urban Interface Code.**

The California Wildland-Urban Interface Code, 2025 edition, as adopted in Title 24 Part 7 of the California Code of Regulations, including Appendix A is hereby adopted and made a part of this Chapter as though fully set forth herein, subject to the modifications thereto which are set forth in this Chapter. One copy of this Code is on file in the office of the City Clerk of the City of Berkeley (“City”).

**Article 1. Scope and Administrative Provisions**

**19.28.020 Adoption of Chapter 1 Scope and Administration**

Chapter 1 of the 2025 California Wildland-Urban Interface Code is partially adopted with adopted sections below. (Sections adopted by the State Fire Marshal remain unless modified below.)

**CHAPTER 1 SCOPE AND ADMINISTRATION**

**SECTION 101 – SCOPE AND GENERAL REQUIREMENTS**

**101.1 Title.** These regulations shall be known as the ~~California Berkeley~~ Wildland-Urban Interface Code of ~~[NAME OF JURISDICTION]~~, hereinafter referred to as “this code”.

**101.3.1 Application.** *New buildings and structures, additions, alterations, repairs and re-roofs located in any Fire Hazard Severity Zone or Wildland-Urban Interface (WUI) Fire Area designated by the enforcing agency constructed after the application date shall comply with the provisions of this code. This shall include all new buildings and structures, additions, alterations, repairs and re-roofs with residential, commercial, educational, institutional or similar occupancy type uses, which shall be referred to in this code as “applicable buildings,” as well as new buildings and structures, additions, alterations, repairs and re-roofs accessory to those applicable buildings.*

**Exceptions:**

1. *Group U occupancy accessory buildings or structures of any size located at least 50 feet (15 240 mm) from an applicable building on the same lot.*
2. *Group U occupancy agricultural buildings or structures, as defined in Section 202 of the California Building Code of any size located at least 50 feet (15 240 mm) from an applicable building.*
- ~~3. *Group C occupancy special buildings or structures conforming to the limitations specified in Section 450.4.1 of the California Building Code.*~~
4. *New accessory buildings and miscellaneous structures specified in Section 504.11 shall comply only with the requirements of that section.*
- ~~5. *Additions to and remodels of buildings originally constructed prior to July 1, 2008.*~~

**101.3.1.1 Application date and where required.** ~~New buildings or structures for which an application for a building permit is submitted on or after July 1, 2008; or buildings and structures, additions, alterations, repairs and re-roofs for which an application for a building permit is submitted on or after July 1, 2008 located in any Fire Hazard Severity Zone or Wildland-Urban Interface Area shall comply with this code, including all land designated as a wildland-urban interface area by the City of Berkeley. ~~of the following areas:~~~~

~~All unincorporated lands designated by the State Board of Forestry and Fire Protection as State Responsibility Area (SRA) including:~~

~~Moderate Fire Hazard Severity Zones.~~

~~High Fire Hazard Severity Zones.~~

~~Very High Fire Hazard Severity Zones.~~

~~Land designated as a Very High Fire Hazard Severity Zone by cities and other local agencies.~~

~~Land designated as a wildland-urban interface area by cities and other local agencies.~~

**Exceptions:**

~~1. New buildings located in any Fire Hazard Severity Zone within a State Responsibility Area, for which an application for a building permit is submitted on or after January 1, 2008, shall comply with this code.~~

~~2. New buildings located in any Fire Hazard Severity Zone within a State Responsibility Area or any wildland-urban interface area designated by cities and other local agencies for which an application for a building permit is submitted on or after December 1, 2005, but prior to July 1, 2008, shall only comply with the following sections of this chapter:~~

~~2.1. Section 507 — Replacement or Repair of Roof Coverings.~~

~~2.2. Section 504.10 — Vents.~~

**101.5 Additions, ~~or alterations~~ or re-roofs.** Additions, ~~or alterations~~ or re-roofs shall be permitted to be made to any building or structure without requiring the existing building or structure to comply with all of the requirements of this code, provided that the additions, ~~or alterations~~ or re-roofs conforms to that required for a new building or structure.

**Exception:** Provisions of this code that specifically apply to existing conditions are retroactive.

Additions, ~~or alterations~~ or re-roofs shall not be made to an existing building or structure that will cause the existing building or structure to be in violation of any of the provisions of this code nor shall such additions or alterations cause the existing building or structure to become unsafe. An unsafe condition shall be deemed to have been created if an addition, ~~or alteration~~ or re-roof will cause the existing building or structure to become structurally unsafe or overloaded; will not provide adequate access in compliance with the provisions of this code or will obstruct existing exits or access; will create a fire hazard;

will reduce required fire resistance or will otherwise create conditions dangerous to human life.

**102.4.1 Conflicts.** Where conflicts occur between provisions of this code and the referenced standards, the provisions of the most restrictive referenced standards ~~this code~~ shall govern.

**102.4.2 Provisions in referenced codes and standards.** Where the extent of the reference to a referenced code or standard includes subject matter that is within the scope of this code, the provisions of the referenced code or standard ~~this code~~, as applicable, shall take precedence over the provisions in this code ~~the referenced standard~~.

## **SECTION 103 – CODE COMPLIANCE AGENCY**

**103.1 Creation of enforcement agency.** The Berkeley Fire Department ~~[INSERT NAME OF DEPARTMENT]~~ is hereby created and the official in charge thereof shall be known as the Fire Chief. The function of the agency shall be the implementation, administration and enforcement of the provisions of this code.

**103.2 Appointment.** The Fire Chief shall be appointed by the ~~chief appointing authority of the jurisdiction~~ City Manager.

**103.3 Deputies.** In accordance with the prescribed procedures of ~~this jurisdiction~~ the City of Berkeley, and ~~with the concurrence of the appointing authority~~ the Fire Chief, ~~hereinafter referred to as~~ the code official, shall have the authority to appoint a ~~Deputy Fire Chief, Fire Marshal, Fire Plans Examiners and~~ other related technical officers, inspectors and other employees. Such employees shall have powers as delegated by the code official. For purposes of this code, the term “code official” shall also include their designees.

## **SECTION 104 – DUTIES AND POWERS OF CODE OFFICIAL**

**104.7 Official records.** The code official shall keep official records as required by Sections 104.7.1 through 104.7.5. Such official records shall be retained for not less than 5 years or for as long as the building, structure or activity to which such records relate remains in existence, unless ~~otherwise provided by other regulations~~ required for a longer period by the retention of public record policy of the city.

**104.7.2 Inspections.** The code official shall keep a record of each inspection made, including notices of violations issued, notices and orders issued, administrative citation warning letters issued, citations issued and appeals received showing the findings and disposition of each.

**104.7.5 Fees.** The code official shall keep a record of invoices issued, fees collected and fees refunded in accordance with Section 108.

**104.9.1 Materials and equipment reuse.** Materials, equipment and devices shall not be reused unless such elements are in good working order with proper reports and

tests justifying the condition, labeled and graded as required and expressly approved by the code official.

**104.14 Liability for Damage.** The expenses of fighting fires and securing emergencies, which result from a violation of this code, Chapter 6.15.030 of the Berkeley Municipal Code (“Unauthorized barbecues and fire on public property”), Sections 13000-13011 of the California Health and Safety Code, Sections 4421-4446 of the California Public Resources Code, or Sections 451, 451.5, 452 or 455 of the California Penal Code is a charge against the person(s) whose violation of the code section(s) caused the fire. Damages caused by such fires shall constitute a debt of such person(s) and shall be collectable by the code official in accordance with Section 104.14.1 (“Expense of securing emergencies”) of this code.

**Section 104.14.1 Expense of securing emergencies.** The expense of securing any emergency that is within the responsibility for enforcement of the code official as given in Sections 104.1 is a charge against the person who caused the emergency. Damages and expenses incurred by any public agency having jurisdiction or any public agency assisting the agency having jurisdiction shall constitute a debt of such person and shall be collectible by the code official for proper distribution in the same manner as in the case of an obligation under contract expressed or implied. Expenses as stated above shall include, but not be limited to, equipment and personnel committed and any payments required by the public agency to outside business firms requested by the public agency to secure the emergency, monitor remediation, and clean up.

## **SECTION 105 – PERMITS**

**105.3 Work exempt from permit.** Exemption from the permit requirements of this code or in other Parts of Title 24 shall not be deemed to grant authorization for any work to be done in any manner in violation of the provisions of this code or any other laws or ordinances of this jurisdiction.

The code official is authorized to stipulate conditions for permits. Permits shall not be issued where public safety would be at risk, as determined by the code official.

**105.4 Permit Application.** To obtain a permit, the applicant shall first file an application therefor in writing on a form furnished by the ~~code enforcement agency~~ City for that purpose. Such application shall not become valid until accepted by the City as complete and appropriate fees paid. Every such application shall:

1. Identify and describe the work, activity, operation, practice or function to be covered by the permit for which application is made.
2. Describe the land on which the proposed work, activity, operation, practice or function is to be done by legal description, street address or similar description that will readily identify and definitely locate the proposed building, work, activity, operation, practice or function.
3. Indicate the use or occupancy for which the proposed work, activity, operation, practice or function is intended.

4. Be accompanied by plans, diagrams, computation and specifications and other data as required in Section 106 of this code or in other Parts of Title 24.
5. State the valuation of any new building or structure or any addition, remodeling, or alteration or re-roof to an existing building.
- ~~6. Be signed by the applicant or the applicant's authorized agent.~~
- ~~7. 6.~~ Give such other data and information as required by the code official.

**105.4.2 Time limitation of application.** An application for a permit for any proposed work shall be deemed to have been abandoned ~~180-365~~ days after the date of filing, unless it can be demonstrated by the applicant that such application has been pursued in good faith or a permit has been issued; except that the code official is authorized to grant one or more extensions of time for additional periods not exceeding 180 days each per extension. The extension shall be requested in writing and justifiable cause demonstrated on a form furnished by the Building and Safety Division for that purpose. Requests for time extensions shall be accompanied by the payment of a fee set by resolution of the City Council. An application, once abandoned, shall be deemed expired and a new application will be required to be submitted.

**Exception.** If an application is associated with a code enforcement case, the dates specified in the code enforcement notices take precedence over the timelines specified in this section.

**105.6.1 Refusal to issue a permit.** Where the application or construction documents do not conform to the requirements of pertinent laws or when public safety would be at risk, the code official shall reject such application in writing, stating the reasons therefor.

**105.8 Expiration of Permit.** *On or after January 1, 2019, every permit issued shall become invalid unless the work on the site authorized by such permit is commenced within 12 months after its issuance or if the work authorized on the site by such permit is suspended or abandoned for a period of 12 months after the time the work is commenced. The building official is authorized to grant, in writing, one or more extensions of time for periods not more than 180 days each. The extension shall be requested in writing and justifiable cause demonstrated. (See Health and Safety Code Section 18938.5 and 18938.6.)*

The extension shall be requested in writing and justifiable cause demonstrated on a form furnished by the Building and Safety Division for that purpose. Requests for time extensions shall be accompanied by the payment of a fee set by resolution of the City Council.

The issuance of a building permit shall not excuse the permittee or any other person from compliance with deadlines imposed in any notice and/or order to correct a code violation issued by the City. If a permit is for a project associated with a code enforcement case, the dates specified in the code enforcement notices take precedence over the timelines specified in this section.

When a permit is deemed expired and a new permit is required to complete the work, a new permit application and plans shall be filed describing the remaining work to be done.

Fees shall be assessed based on the valuation of the work remaining to be completed or itemized as allowed by adopted fee schedule. If a site visit or other review is required to determine the extent of the remaining work, a fee may be charged to make such determination.

For the purposes of this section “suspended or abandoned for a period of 12 months after the time the work is commenced” shall mean that no activity or progress has been made on site for the work approved under the issued permit in the time period the permit is active and a completed and approved city inspection, per Section 109.1 of this code and/or California Building Code Section 110.3, has not been acquired.

**106.2 Information on plans and specifications.** Plans and specifications shall be drawn to scale ~~on substantial paper or cloth~~ and shall be of sufficient clarity to indicate the location, nature and extent of the work proposed, and show in detail that it will conform to the provisions of this code and relevant laws, ordinances, rules and regulations.

**106.4 Vegetation management compliance.** *Prior to the building permit final approval, the property shall be in compliance with the vegetation management requirements prescribed in Section 603, including California Public Resources Code 4291 or California Government Code Section 51182, and Section 302.3. Acceptable methods of compliance inspection and documentation shall be determined by the enforcing agency and shall be permitted to include any of the following:*

- 1. Local, state or federal fire authority or designee authorized to enforce vegetation management requirements.*
- 2. ~~Enforcing agency~~ Berkeley Fire Department inspection and/or vegetation management plan submittal, review, and approval.*
- 3. Third-party inspection and certification authorized to enforce vegetation management requirements.*
- 4. Property owner certification authorized by the ~~enforcing agency~~ Berkeley Fire Department.*
- 5. Compliance with hazardous vegetation and fuel mitigation and home hardening requirements in Section 604.3.1 and Section 604.3.2.*

**106.5 Fire protection plan.** Where required by the code official pursuant to Section 602, a fire protection plan shall be prepared and shall be submitted to the code official for review and approved as a part of the plans required for a permit. The Fire Protection Plan shall be enforced and maintained by the responsible party or their designated agent. The Berkeley Fire Department may charge an appropriate fee for the review, approval and processing of the Fire Protection Plan as established by City Council resolution.

**106.8 Retention of plans.** One set of approved plans, specifications and computations shall be retained by the code official for a period of not less than ~~180 days~~ 5 years from date of completion of the permitted work or as required by state or local laws or per the public records retention policy of the city, whichever is longer; and one set of approved plans and specifications shall be returned to the applicant, and said set shall be kept on

the site of the building, use or work at all times during which the work authorized thereby is in progress. *Refer to Building Standards Law, Health and Safety Code Sections 19850 and 19851 for permanent retention of plans.*

**106.11 Previous approvals.** This code shall not require changes in the construction documents, construction or designated occupancy of a structure for which a lawful permit has been heretofore issued or otherwise lawfully authorized, and the construction of which has been pursued in good faith within ~~480~~ 365 days after the effective date of this code and has not been abandoned.

## **SECTION 108 – FEES**

**108.1 Payment of fees.** Except when fees are deferred, a permit application shall not be deemed valid until the fees set forth by resolution of City Council have been paid. A permit shall not be valid until the fees prescribed by law as set forth by resolution of City Council have been paid. An amendment to a permit shall not be released until the additional fee, if any, has been paid.

**108.2 Schedule of permit fees.** On buildings, structures, electrical, gas, mechanical, and plumbing systems, or alterations ~~where~~ a permit is required, a fee for each permit shall be paid as required, in accordance with the fee schedule as established by the applicable governing authority set forth by resolution of the City Council. Fees for permits and inspections and other related services under this code shall be assessed and paid as set forth by resolution of the City Council. Unless waived or deferred, as provided by local regulations, a plan review fee and other fees as specified in the resolution shall be paid at the time of submitting any documents for review and additional fees as specified in the resolution shall be paid at issuance of the permit.

**108.4 Work commencing before permit issuance.** Any person who commences any work on a building, structure, electrical, gas, mechanical or plumbing system before obtaining the necessary permits shall be subject to a fee established by the applicable governing authority, which shall be in addition to the required permit fees as set forth by resolution of the City Council to be twice the amount of the required fees to obtain a permit for that work, activity or operation regulated by this code. This is in addition to the permit fees for the portion of the scope of work performed without the permit.

## **SECTION 109—INSPECTION AND ENFORCEMENT**

**109.1.3.1 Re-inspection fees.** A re-inspection fee, as set forth by resolution of the City Council, may be assessed for each re-inspection when such portion of work for which an inspection is scheduled is not complete, is required to be reinspected after receiving a previously approved inspection for the same work or when corrections previously called for are not made.

Re-inspection fees shall not be required each time a job is disapproved for failure to comply with the requirements of this Code. This section applies for the following reasons:

1. When the work is not ready for inspection when the inspector arrives at the site.
2. When excessive scheduling of inspections for work not yet completed at the site.
3. When the approved plans, permit and inspection card are not readily available to the inspector at the work site.
4. For failure to provide access on the date for which the inspection is requested.
5. When work deviates from the approved plans and no approved revision to approved plans has been obtained by the permittee.
6. When other reasons, as determined by the code official, requires a re-inspection fee to be assessed.

The applicant shall pay the re-inspection fee as set forth by resolution of the City Council. In instances where re-inspection fees have been assessed, no additional inspection of the work will be performed until the required fees have been paid.

**109.2.3 Corrective Actions.** The code official is authorized to take enforcement actions as necessary to achieve compliance with this code, including but not limited those actions specified in Sections 109.3.7 (“Violation penalties”) and 109.3.5.5 (“Summary abatement”) of this code, and as authorized by Berkeley Municipal Code, Chapter 1.24, “Abatement of Nuisances”, and in accordance with all other applicable portions of the Berkeley Municipal Code. Corrective actions may also include the use of abatement warrants and the imposition of property liens as appropriate and in accordance with law.

**109.3.2 Compliance with tags.** A building or premises shall not be used when in violation of this code as noted on a tag affixed in accordance with Section ~~409.3.1~~ 109.3.5.3.

**109.3.5 Unsafe conditions.** Structures or existing equipment that are or hereafter become structurally or otherwise unsafe, insanitary or deficient because of inadequate means of egress facilities, inadequate light and ventilation, or which constitute a structural or fire hazard, or are otherwise dangerous to human life or the public welfare, or that involve illegal or improper occupancy or inadequate maintenance, shall be deemed an unsafe condition. Unsafe structures shall be taken down and removed or made safe, as the building official deems necessary and as provided for in this section. A vacant structure that is not secured against unauthorized entry shall be deemed unsafe.

All such unsafe buildings, equipment, structures or appendages are hereby declared to be public nuisances and shall be abated by repair, rehabilitation, demolition or removal in accordance with the procedures set forth in Chapters 1.24, 19.28, 19.40 and/or 19.44 of the BMC as applicable. As an alternative, the building official, or other employee or official of this jurisdiction as designated by the City Council, may institute any other appropriate action to prevent, restrain, correct or abate the violation.

**109.3.5.3 Safety Assessment Placards. Placarding.** Upon failure of the owner, the owner’s authorized agent or the person responsible to comply with the notice provisions within the time given, the code official shall post on the premises or on defective equipment a placard bearing the word “UNSAFE” and a statement of the penalties provided for occupying the premises, operating the equipment or removing the placard.

**109.3.5.3.1 Posting.** The code official or designee shall post the appropriate placard at each entry point to a building or structure upon completion of a safety assessment.

**109.3.5.3.2 Application of provisions.** The provisions of this section are applicable to all buildings and structures of all occupancies regulated by the City of Berkeley. The City Council may extend the provisions as necessary.

**109.3.5.3.3 Safety Assessment.** Safety Assessment is a visual, non-destructive examination of a building or structure for the purpose of determining the condition for continued occupancy.

**109.3.5.3.4 Placards.** This section establishes standard placards to be used to indicate the condition of a building or structure for occupancy after a natural or human-caused disaster and a rapid evaluation by authorized personnel.

Following are titles and descriptions of the official jurisdiction placards to be used to designate the condition of a building or structure for continued occupancy, partial or conditional occupancy, or unsafe to enter. Copies of placards are on file in the Building and Safety Division of the Planning and Development Department.

**INSPECTED** – Lawful Occupancy Permitted is to be posted on any building or structure wherein no apparent hazard has been found. This placard is not intended to mean there is no damage to the building or structure, but that any damage that occurred does not present a hazard to occupants.

**RESTRICTED USE** is to be posted on each building or structure that has been damaged wherein the damage has resulted in some form of restriction to the continued occupancy. The individual who posts this placard will note in general terms the type of damage encountered and will clearly and concisely note the restrictions on continued occupancy.

**UNSAFE – “Do Not Enter or Occupy”** is to be posted on each building or structure that has been damaged such that continued occupancy poses a threat to life safety. Building or structures posted with this placard shall not be entered under any circumstances except as authorized in writing by the building official, or the building official’s authorized representative. Safety assessment teams shall be authorized to enter these building at any time. This placard is not to be used or considered as a demolition order. The individual who posts this placard will note in general terms the type of damage encountered.

**109.3.5.3.5 Content of placard.** The BMC Section number and the words "City of Berkeley" shall be permanently affixed to each placard.

**109.3.5.3.6 Unlawful to remove.** Once a placard has been attached to a building or structure, it is not to be removed, altered or covered until done so by an authorized representative of the code official. It shall be unlawful for any person, firm or corporation to alter, remove, cover or deface a placard unless authorized pursuant to this section.

**109.3.5.3.17 Placard removal.** The code official shall remove the unsafe condition placard whenever the defect or defects on which the unsafe condition and placarding action were based have been eliminated. Any person who defaces or removes a safety

assessment an unsafe condition placard without the approval of the code official shall be subject to the penalties provided by this code.

**109.3.5.5 Summary abatement.** Where conditions exist that are deemed hazardous to life and property, the code official is authorized to abate or correct summarily such hazardous conditions that are in violation of this code, including fire nuisances. Where the owner does not comply with an abatement order under Section 109.3.5.2 within the period specified, the City of Berkeley may perform or cause to be performed the necessary work. The costs incurred shall be recoverable under the procedures in Section 109.3.5.4.1.

**109.3.5.4.1 Abatement process.** The abatement process shall be conducted in accordance with the notice and hearing requirements of the nuisance abatement provisions of Berkeley Municipal Code Chapter 1.24, including summary abatements of structures or premises determined by the City of Berkeley to constitute an imminent hazard or emergency condition.

**109.3.7 Violation penalties.** Persons who shall violate a provision of this code or fail to comply with any of the requirements thereof or who shall erect, install, construct, alter, repair or do work for a building or structure in violation of the approved construction documents or directive of the code official, or of a permit or certificate issued under the provisions of this code, shall be guilty of a ~~[SPECIFY OFFENSE]~~, punishable by a fine of not more than ~~[AMOUNT]~~ dollars or by imprisonment not exceeding ~~[NUMBER OF DAYS]~~, or both such fine and imprisonment. subject to penalties as prescribed by law. Each day that a violation continues after due notice has been served shall be deemed a separate offense. In addition to all other legal remedies, civil or criminal (as set forth above), any violation of this code constitutes a public nuisance in accordance with B.M.C Chapter 1.26, and is subject to all provisions of B.M.C. Chapter 1.26, as well as abatement under B.M.C. Chapter 1.24, "Abatement of Nuisances," with the exception of section 112 (Means of Appeal) which supersedes these provisions. All such violations are also subject to the issuance of an administrative citation in accordance with B.M.C Chapter 1.28 at the discretion of the enforcing officer or the City Attorney.

**109.3.7.1 Unlawful acts.** *It shall be unlawful for any person, firm or corporation to erect, construct, alter, extend, repair, move, remove, demolish, ~~or~~ occupy, or utilize any building, structure or equipment regulated by this code, or cause same to be done, in conflict with or in violation of any of the provisions of this code or create, maintain or allow to continue any fire hazard.*

**109.4 Restricted Entry of Wildland-Urban Interface Areas.** The code official shall determine and publicly announce when Wildland-Urban Interface areas shall be closed to entry and when such areas shall again be opened to entry. Entry on and occupation of Wildland-Urban Interface areas, except public roadways, inhabited areas or established trails and camp sites which have not been closed during such time when the Wildland-Urban Interface areas are closed to entry, is prohibited.

**Exceptions:**

1. Residents and owners of private property within Wildland-Urban Interface areas and their invitees and guests going to or being upon their lands;

2. Entry, in the course of duty, by peace officers, and other duly authorized public officers, members of a fire department and members of the United States Forest Service.

### **109.5 Trespassing on Posted Property**

**109.5.1 General.** When the code official determines that a specific area within a Wildland-Urban Interface Areas, as listed in Section 302.3, presents an exceptional and continuing fire danger because of the density of natural growth, difficulty of terrain, proximity to structures or accessibility to the public, such areas shall be closed until changed conditions warrant termination of closure. Such areas shall be posted as hereinafter provided.

**109.5.2 Signs.** Approved signs prohibiting entry by unauthorized persons and referring to this section shall be placed on every closed area.

**109.5.3 Trespassing.** Entering and remaining within areas closed and posted is prohibited.

**Exception:** Owners and occupiers of private or public property within closed and posted areas, their guests or invitees, and local, state and federal public officers and their authorized agents acting in the course of duty.

## **SECTION 110—CERTIFICATE OF COMPLETION OCCUPANCY**

**110.1 General.** A building, structure or premises shall not be used or occupied, and a change in the existing use or occupancy classification of a building, structure, premise or portion thereof shall not be made until the code official has issued a certificate of ~~completion~~ occupancy therefor as provided herein. The certificate of occupancy shall not be issued until the code official has determined that the project is in compliance with this code. *The code official shall, upon completion of construction, provide the owner or applicant with a copy of the final inspection report that demonstrates the building was constructed in compliance with all applicable state and local building standards, including those for materials and construction methods for wildfire exposure as described in this code. Issuance of a certificate of occupancy by the local building official for the proposed building shall be considered to indicate compliance with this code.*

**110.2 Certificate of occupancy.** Issuance of a certificate of occupancy is the responsibility of the local building official. The issuance of a certificate of occupancy shall not be construed as an approval of a violation of the provisions of this code or of other pertinent laws and ordinances of the jurisdiction. Certificates presuming to give authority to violate or cancel the provisions of this code or other laws or ordinances of the jurisdiction shall not be valid.

Exceptions:

~~1. Certificates of occupancy are not required for work exempt from permits under Section 105.3.~~

~~2. Accessory structures.~~

**110.3 Temporary occupancy.** The code official, in agreement with the local building official, is authorized to issue a temporary certificate of occupancy before the completion of the entire work covered by the permit, provided that such portion or portions shall be occupied safely. The code official shall set a time period during which the temporary certificate of occupancy is valid.

**110.4 Revocation.** The code official, in agreement with the local building official, is authorized to, in writing, suspend or revoke a certificate of occupancy or completion issued under the provisions of this code wherever the certificate is issued in error, on the basis of incorrect information supplied, or where it is determined that the building or structure, premise or portion thereof is in violation of any ordinance or regulation or any of the provisions of this code.

## **SECTION 111 – SERVICE UTILITIES**

**111.1 Authority for ~~c~~Connection of service utilities.** A person shall not make connections from a utility, a source of energy, fuel, power, water system or sewer system to any building, structure or system that is regulated by this code for which a permit is required until ~~authorized~~ authorization to connect by the code official has been obtained.

**111.1.2 Authority to connect utilities.** Clearance for connection of one utility, either gas or electrical, will be withheld until final building, electrical, plumbing, and/or mechanical inspections are made and approval has been given for any new building or change in occupancy classification to an existing building for which connection to such utilities is sought, unless approval has been first obtained from the code official, as provided by a Temporary Certificate of Occupancy or Final Certificate of Occupancy.

**111.3 Authority to disconnect service utilities in emergencies.** The code official shall have the authority to authorize ~~disconnection of utility service to~~ disconnect electrical power or other energy service supplied to ~~the~~ a building, structure, ~~or~~ system or building service equipment therein regulated by this code and the referenced codes and standards in case of emergency where necessary to eliminate an immediate hazard to life or property or where such utility connection has been made without the approval required by Section 111.1 or 111.2. The code official shall notify the serving utility and, where possible, the owner or the owner's authorized agent and the occupant of the building, structure, ~~or~~ service system or equipment of the decision to disconnect prior to taking such action. If not notified prior to disconnection, the owner, the owner's authorized agent or the occupant of the building, structure, ~~or~~ service system or equipment shall be notified in writing as soon as practical thereafter.

**111.4 Unsafe service utilities.** Unsafe service utilities are hereby declared to be public nuisances and shall be abated, repaired, rehabilitated, demolished or removed in accordance with the procedures set forth in this code and/or per Chapter 19.40 of the Berkeley Municipal Code (BMC) for residential buildings and Berkeley Building Code for all other buildings, or any alternate procedure that may be adopted by the City of Berkeley. In addition, the City Attorney may pursue other appropriate action to prevent, restrain, correct or abate the violation as provided for in the BMC. Remedies under this section are cumulative. When service utilities are maintained in violation of this Code and in

violation of a notice issued pursuant to the provisions of this section, the code official shall institute appropriate action to prevent, restrain, correct or abate the violation.

**111.5 Authority to condemn electrical, plumbing and/or mechanical systems and equipment.** Whenever the code official determines that an electrical, plumbing, or mechanical system or equipment regulated by this code is hazardous to life, health or property, the building official may order in writing that such systems or equipment either be removed or restored to a safe working condition. The written notice shall fix a reasonable time limit for compliance with such order. Persons shall not use or maintain defective systems or equipment after receiving such notice except as may be provided therein.

When equipment or an installation is to be disconnected, a written notice of such disconnection and the reasons therefore shall be given within 24-hours of the order to disconnect to the serving utility, the owner and occupants of the building, structure or premises.

When equipment or an installation is maintained in violation of this Code and in violation of a notice issued pursuant to the provisions of this section, the building official shall institute appropriate action to prevent, restrain, correct or abate the violation.

Unsafe electrical, plumbing, and/or mechanical systems or equipment are hereby declared to be public nuisances and shall be abated by repair, rehabilitation, demolition or removal in accordance with the procedures set forth in Chapter 19.40 of the BMC for residential buildings and Berkeley Building Code for all other buildings, or any alternate procedure adopted by the City of Berkeley. In addition, the City Attorney may pursue other appropriate action to prevent, restrain, correct or abate the violation as provided for in the BMC. Remedies under this section are cumulative.

**111.6 Connection after order to disconnect.** Persons shall not make connections to a service utility, a source of energy, fuel, or power, or a water system or sewer system or equipment that has been disconnected or ordered to be disconnected by the building official, or the use of which has been ordered to be discontinued by the code official, until the building official authorizes the reconnection and use of the disconnected service systems or equipment.

## SECTION 112 – MEANS OF APPEALS

**112.1 -General Appeals Procedure.** ~~In order to hear and decide appeals of orders, decisions or determinations made by the fire code official relative to the application and interpretation of this code, there shall be and is hereby created a board of appeals. The board of appeals shall be appointed by the applicable governing authority and shall hold office at its pleasure. The board shall adopt rules of procedure for conducting its business and shall render all decisions and findings in writing to the appellant with a duplicate copy to the fire code official.~~ The City Council shall hear and decide on appeals of orders, decisions, or determinations made by the Fire Code Official relative to the application and interpretation of this code. A property owner may appeal an order, decision, or determination of the Fire Code Official within 10 calendar days of the date of mailing of the appealable action. The notice of appeal shall contain a statement of the reasons for the appeal and be filed with the City Clerk of the City of Berkeley. The City Clerk shall forward one copy thereof to the Fire Code Official, who shall transmit to the City Council all their records pertaining to the decision being appealed.

**Section 112.1.1 Payment of Fees and Fines.** Prior to the deadline to appeal, the property owner must pay the appeal fee, per the adopted fee schedule, in addition to an advance deposit of the fine or file an application for an advanced deposit hardship waiver. If the hardship waiver is not granted, the fine must be deposited to the City within 14 days of mailed notice of that decision. No hearing shall be scheduled prior to receipt of payment or approval of the hardship waiver.

**112.1.2 Stay of Proceedings.** The filing of the notice of appeal shall stay all proceedings by all parties in connection with the matter upon which the appeal is taken until determination of the appeal as hereinafter provided, unless the fire code official determines that such a stay could result in an imminent threat to public safety.

**112.2 Limitations on authority.** An application for appeal shall be based on a claim that the true intent of this code or the rules legally adopted thereunder have been incorrectly interpreted, the provisions of this code do not fully apply or an equivalent or better form of construction is proposed. The ~~board~~ City Council shall not have authority to waive requirements of this code.

**112.3 Qualifications.** ~~The board of appeals shall consist of members who are qualified by experience and training on matters pertaining to the provisions of this code and are not employees of the jurisdiction.~~ **Decisions.** The City Council shall review the action of the fire code official and shall do any one of the following:

Refer the matter back to the fire code official.

If the facts stated in, or ascertainable from the, Notice of Appeal, the written statement of the fire code official setting forth the reason for their decision, and the other papers, if any, constituting the record do not, in the opinion of the City Council, warrant further hearing, the City Council may affirm the decision of the fire code official. Such decision shall be final.

If, in the opinion of the City Council, said facts warrant further hearing, the City Council shall set the matter for hearing and shall give notice of the time and place of said hearing by mailing a copy of such notice by certified mail to the address of the appellant as stated in the Notice of Appeal, at least ten (10) days before the time fixed for the hearing. The City Council may continue the hearing from time to time.

Following such hearing, the City Council shall reverse, affirm wholly or partly modify any decision of the fire code official, or make any other decisions or determinations or impose such conditions as the facts warrant. Such decision or determination shall be final.

If none of the above actions have been taken by the City Council within thirty (30) days from the date the appeal first appears on the City Council agenda, then the decision of the fire code official shall be deemed affirmed and the appeal shall be deemed dismissed.

If the appeal is set for hearing but the disposition of the appeal has not been determined within ninety (90) days from the date the appeal first appears on the City Council agenda, then the decision of the fire code official shall be deemed affirmed and the appeal deemed dismissed.

**112.4 Administration.** The fire code official shall take action without delay in accordance with the decision of the ~~board~~ City Council.

## **Article 2. Definitions**

### **19.49.030 Adoption of Chapter 2 Definitions**

Chapter 2 of the 2025 California Wildland-Urban Interface Code is partially adopted with adopted sections below. (Sections adopted by the State Fire Marshal remain unless modified below.)

**ACCESSORY STRUCTURE.** A structure that is accessory to and incidental to that of the primary structure and that is located on the same lot. ~~A building or structure used to shelter or support any material, equipment, chattel or occupancy other than a habitable building.~~

**APPLICABLE BUILDING.** *A building or structure that has residential, commercial, educational, institutional or similar occupancy type use.*

**BERKELEY BUILDING STANDARDS CODE.** The Berkeley Building Standards Code includes the most recently adopted Berkeley Building Code, Berkeley Residential Code, Berkeley Existing Building Code, Berkeley Historical Building Code, Berkeley Electrical Code, Berkeley Mechanical Code, Berkeley Plumbing Code, Berkeley Green Code, and Berkeley Energy Code.

**BOLE OF A TREE.** A bole of a tree is its main trunk, specifically the part extending from the roots up to the first branches and canopy.

**FIRE HAZARD.** Anything or act which increases or could cause an increase of the hazard or menace of fire to a greater degree than that customarily recognized as normal by persons in the public service regularly engaged in preventing, suppressing or extinguishing fire or anything or act which could obstruct, delay, hinder or interfere with the operations of the fire department or the egress of occupants in the event of fire. Fire hazards as defined herein are hereby declared to be public nuisances subject to abatement by the City of Berkeley.

**FIRE HAZARD SEVERITY ZONES.** Geographical areas designated pursuant to California Public Resources Codes, Sections 4201 through 4204 and classified as Very High, High, or Moderate in State Responsibility Area or as Local Agency Very High Fire Hazard Severity Zones designated pursuant to California Government Code, Sections 51175 through 51189, and locally amended and adopted under ordinance 7958 N.S.

The California Code of Regulations, Title 14, Section 1280 entitles the maps of these geographical areas as "Maps of the Fire Hazard Severity Zones in the State Responsibility Area of California." The map, approved by the Office of the State Fire Marshal, is hereby incorporated by reference and entitled "State Responsibility Area Fire Hazard Severity Zones," dated September 29, 2023 April 1, 2024. The map is available at <https://osfm.fire.ca.gov/fire-hazard-severity-zones>.

In the City of Berkeley, the wildland-urban interface areas that include high and very high fire hazard severity zones are described in Section 302.3 of this code.

**FIRE NUISANCE.** Anything or act, which is annoying, unpleasant, offensive or obnoxious because of fire.

**FIRE PROTECTION PLAN.** A document prepared for a specific premises, project or development, either existing or proposed for the wildland-urban interface area. It describes ways to minimize and mitigate potential for loss from wildfire exposure.

**FORBS.** Forbs are herbaceous (non-woody) flowering plants that are not grasses, sedges, or rushes.

**FUEL BREAK.** (applicable to CCR, Title 14 provisions only). A strategically located area where the volume and arrangement of vegetation has been managed to limit fire intensity, fire severity, rate of spread, crown fire potential and/or ember production. [CCR Title 14§1270.01(n)].

**IGNITION-RESISTANT BUILDING MATERIAL.** A type of building material that resists ignition or sustained flaming combustion sufficiently so as to reduce losses from wildfire exposure of burning embers and small flames, and complies with the requirements of this code.

**JURISDICTION.** The City of Berkeley.

**OUTBUILDING(S).** (applicable to CCR, Title 14 provisions only). Any buildings or structures that are less than 120 square feet (11.15 m<sup>2</sup>) in size and not used for human habitation. An "Outbuilding" is not a "Building" or "Structure" as defined herein. [CCR Title 14 §1299.02(c)]

**WILDLAND-URBAN INTERFACE AREA (WUI).** *A geographical area identified by the state as a “Fire Hazard Severity Zone” in accordance with the Public Resources Code Sections 4201 through 4204 and Government Code Sections 51175 through 51189, and other areas designated by the City enforcing agency to be at a significant risk from wildfires. For the City of Berkeley’s WUI areas see section 302.3.*

### **Article 3. Wildland-Urban Interface Areas**

#### **19.49.040 Chapter 3 Wildland-Urban Interface Areas**

Chapter 3 of the 2025 California Wildland-Urban Interface Code is partially adopted with adopted sections below. (Sections adopted by the State Fire Marshal remain unless modified below.)

**302.3 WUI Areas in Berkeley.** The High Fire Hazard Severity Zone, Very High Fire Hazard Severity Zone, Panoramic Mitigation Area, and Grizzly Peak Mitigation Area are designated as Wildland-Urban Interface Area (WUI) and are described as follows:

**302.3.1 FLATLANDS AREA.** The Flatlands Area encompasses the entire City of Berkeley except for areas in the High and Very High Fire Hazard Severity Zones, which includes the Panoramic Mitigation Area and Grizzly Peak Mitigation Area.

**302.3.2 HIGH FIRE HAZARD SEVERITY ZONE.** Encompasses those areas identified as High Fire Hazard Severity Zones, locally amended and designated by ordinance pursuant to California Government Code Sections 51176 through 51189. These areas are available on the City of Berkeley publicly accessible GIS map.

This area includes areas of the City east / northeast of the line formed by these roads. Homes addressed on, or with a structural frontage on either side of these road segments are included in the zone:

- a. The Arlington Avenue from the Kensington Border to Marin Avenue
- b. Fountain Walk from Marin Avenue to Sutter Street
- c. Sutter Street from the southern portal of the Northbrae Tunnel to Eunice Street
- d. Eunice Street from Sutter Street to Spruce Street
- e. Spruce Street from Eunice Street to Hearst Avenue
- f. Hearst Avenue from Spruce Street to Gayley Road
- g. Gayley Road from Hearst Avenue to Piedmont Avenue
- h. Piedmont Avenue from Gayley Road to Bancroft Way
- i. Piedmont Crescent from Piedmont Avenue to Warring Street
- j. Warring Street from Dwight Way to Derby Street
- k. Derby Street from Warring Street to Belrose Avenue
- l. Belrose Avenue from Derby Street to Garber Street

- m. Claremont Boulevard from Garber Street to Claremont Avenue
- n. Claremont Avenue from Claremont Boulevard to the Oakland Border

**302.3.5 VERY HIGH FIRE HAZARD SEVERITY ZONE.** The Very High Fire Hazard Severity Zone encompasses those areas identified by CalFIRE as Very High Fire Hazard Severity Zones pursuant to California Government Code 51175-51189, locally amended and designated by ordinance. These areas are available on the City of Berkeley publicly accessible GIS map.

**PANORAMIC MITIGATION AREA.** The Panoramic Mitigation Area encompasses those areas of the city bounded by the line formed by these roads and by the City Limit to the east. The entirety of the Panoramic Mitigation Area is designated, by ordinance, as a Very High Fire Hazard Severity Zone. Homes addressed on, or with a structural frontage on either side of these road segments are included in the zone:

- a. Centennial Drive from the Oakland border to Stadium Rim Way
- b. Stadium Rim Way from Centennial Drive to Canyon Road
- c. Canyon Road from Stadium Rim Way to Bancroft Way
- d. Bancroft Way from Canyon Road to Bancroft Steps
- e. Bancroft Steps from Bancroft Way to Bancroft Way
- f. Bancroft Way from Bancroft Steps to Piedmont Avenue
- g. Piedmont Avenue from Bancroft Way to Dwight Way
- h. Dwight Way East from Piedmont Avenue to the eastern terminus of Dwight Way.
- i. A straight line extending East from the terminus of Dwight Way to the Oakland border.

**GRIZZLY PEAK MITIGATION AREA.** The Grizzly Peak Mitigation Area encompasses those areas of the city east of Grizzly Peak Boulevard to the city boundary. Homes addressed on, or with a structural frontage on either side of Grizzly Peak Boulevard are included in the area. The Grizzly Peak Mitigation Area is designated, by ordinance, as a Very-High Fire Hazard Severity Zone.

**302.4 Restrictions in Wildland-Urban Interface Areas.** Code requirements in this code apply to the High Fire Hazard Severity Zone, Very High Fire Hazard Severity Zone, Panoramic Mitigation Area, and Grizzly Peak Mitigation Area.

## Article 4. Wildland-Urban Interface Area Requirements

### 19.49.050 Chapter 4 Wildland-Urban Interface Area Requirements

Chapter 4 of the 2025 California Wildland-Urban Interface Code is partially adopted with adopted sections below. (Sections adopted by the State Fire Marshal remain unless modified below.)

**402.3 Existing conditions.** *Existing buildings shall be provided with address markers in accordance with Sections 403.2.4 and 403.2.5. Existing roads and fire protection equipment shall be provided with markings in accordance with Sections ~~403.4~~403.2.2 and ~~403.2.3-404.8~~, respectively.*

#### SECTION 403—ACCESS

**USER NOTE:** The standards in Section 403 applicable to roads shall not apply to roads used solely for agriculture; mining; or the management of timberland or harvesting of forest products. [CCR, Title 14 §1270.03(d)]

**403.1 General.** Roads and driveways, whether public or private, unless exempted under 14 CCR § 1270.03(d), shall provide for safe access for emergency wildfire equipment and civilian evacuation concurrently, and shall provide unobstructed traffic circulation during a wildfire emergency consistent 403.1.1 to 403.1.9. [CCR, Title 14 §1273.00]

Where conflicts occur between Section 403 – Access and the Berkeley Fire Code Appendix D – Fire Apparatus Access Roads, the provisions of the most restrictive code shall govern.

#### **403.2.4 Addresses for Buildings.**

*(a) All Buildings shall be issued an address by the ~~Local Jurisdiction~~ City of Berkeley which conforms to ~~that jurisdiction's~~ the City's overall address system. Utility and miscellaneous Group U Buildings are not required to have a separate address; however, each Residential Unit within a Building shall be separately identified.*

*(b) The size of letters, numbers and symbols for addresses shall conform to the standards in the ~~California Fire Building Code~~ Section 502.1, ~~California Code of Regulations Title 24, Part 9~~.*

*(c) Addresses for residential Buildings shall be reflectorized.*

**404.5 Adequate water supply.** *Fire-flow requirements shall be determined in accordance with Appendix B or BB of the ~~California~~ Berkeley Fire Code, as applicable.*

## Article 5. Special Building Construction Regulations

### 19.49.060 Chapter 5 Special Building Construction Regulations

Chapter 5 of the 2025 California Wildland-Urban Interface Code is partially adopted with adopted sections below. (Sections adopted by the State Fire Marshal remain unless modified below.)

**501.1 Scope.** New Buildings and structures, additions, alterations, repairs and re-roofs constructed in a wildland-urban interface area shall be constructed in accordance with the California Building Code, California Fire Code and this code.

#### **Exceptions:**

1. Group U accessory buildings or structures not exceeding 120 square feet (11 m<sup>2</sup>) in floor area where located not less than 50 feet (15240 mm) from applicable buildings on the same lot.
2. Group U agricultural buildings or structures not less than 50 feet (15 240 mm) from applicable buildings.

**501.1.1 Purpose.** The purpose of this chapter is to establish minimum standards for the protection of life and property by increasing the ability of a building located in any Fire Hazard Severity Zone within a State Responsibility Area (SRA) or Local Responsibility Areas (LRA) or any building or structure in the wildland-urban interface (WUI) areas as specified in Section 302.3 to resist the intrusion of flames or burning embers projected by a vegetation fire and contributes to a systematic reduction in conflagration losses.

**501.1.2 Application.** Construction of new buildings and structures, additions, alterations, repairs, and re-roofs located in any Fire Hazard Severity Zone or new buildings and structures, additions, alterations, repairs and re-roofs located in any wildland-urban interface (WUI) area designated by the enforcing agency constructed after the application date shall comply with the provisions of this chapter. This shall include all new buildings and structures, additions, alterations, repairs and re-roofs with residential, commercial, educational, institutional or similar occupancy type uses, which shall be referred to in this chapter as “applicable building(s)” (see definition in Chapter 2), as well as new buildings and structures, additions, alterations, repairs and re-roofs accessory to those applicable buildings.

#### **501.2.1 Construction methods and requirements within established limits.**

Within the limits established by law, construction methods intended to mitigate wildfire exposure shall comply with the wildfire protection building construction requirements contained in this code, the Berkeley Fire Code, and the Berkeley Building Standards whichever is most restrictive.

**503.1 General.** Buildings and structures hereafter constructed, added to, modified, repaired, re-roofed or relocated into or within wildland-urban interface areas shall meet the construction requirements in accordance with *Chapter 5*. Materials required to be ignition-resistant *building* materials shall comply with the requirements of Section 503.2.

**Exceptions:**

1. *New accessory buildings and miscellaneous structures complying with Section 504.11.*
- ~~2. *Additions to and remodels of buildings originally constructed prior to July 1, 2008.*~~
2. *Group C occupancy special buildings conforming to the limitations specified in Section 450.4.1 of the California Building Code.*

**504.2 Roof assembly.** Roofs shall have a roof assembly that complies with a Class A fire classification when tested in accordance with ASTM E108 or UL 790. For additional compliance see California Building Code Chapter 15, Section 1505.2 for Class A roof assemblies. The roof assembly shall be installed in accordance with its listing and the manufacturer's installation instructions.

Wooden shakes and shingles are prohibited roof coverings regardless of the assembly rating of the roof system

**Exceptions:** *The following assemblies are exempt from testing and shall be considered as equivalent to the Class A fire classification:*

1. Roof assemblies with coverings of brick, masonry or an exposed concrete roof deck.
2. Roof assemblies with ferrous or copper shingles or sheets, metal sheets and shingles, clay or concrete roof tile or slate installed on noncombustible decks or ferrous, copper or metal sheets installed without a roof deck on noncombustible framing.
3. Roof assemblies *with* minimum 16 oz/sq ft (0.0416 kg/m<sup>2</sup>) copper sheets installed over combustible roof decks.
4. *Roof assemblies of slate roof covering installed over ASTM D226, Type II underlayment over combustible decks.*

## **505 – RESERVED REPLACEMENT OF EXTERIOR WALL COVERING**

**505.1 Replacement of Exterior Wall Covering.** Materials for replacement of existing exterior wall covering shall meet or exceed the standards set forth in Section 504.5 of this code.

**Exception:** Where less than 50% of any wall surface is being replaced or repaired, and the matching of the new plane to the existing plane on that wall is not possible.

## **506 – RESERVED UNDERGROUND UTILITY CONNECTIONS**

**506.1 Underground utility connections.** For new construction, provisions shall be made for the undergrounding of all utilities serving the property, including but not limited to

electrical, telephone and cable television, by the installation of appropriately sized underground conduits extending from the parcel.

## **SECTION 507—REPLACEMENT OR REPAIR OF ROOF COVERINGS**

**507.1 General.** The roof covering on buildings or structures in existence prior to the adoption of this code that are entirely replaced or have 50 percent or more replaced in a 12-month period shall be replaced with a roof covering as required for new construction in accordance with Sections 504.2 and 504.2.1. All portions of a roof covering applied during an addition, alteration or repair to an existing structure shall meet at least a Class A fire classification in accordance with Sections 504.2 and 504.2.1.

The entire roof covering of every existing building or structure where more than 50 percent of the total roof area is replaced within any 5-year period shall be replaced with a fire-retardant roof covering in accordance with Sections 504.2 and 504.2.1.

## **SECTION 508—ADDITIONAL REQUIREMENTS IN THE PANORAMIC MITIGATION AREA.**

**508.1 General.** In addition to meeting the other requirements of this code, buildings or structures hereinafter erected, constructed, moved, altered, added, or repaired within the Panoramic Mitigation Area shall comply with the following requirements for buildings and structures.

**508.1.2 Fire warning system.** All residential units shall be equipped with a Fire Warning System as specified by the residential smoke alarm requirements in the most recently adopted California Building Code and/or California Residential Code and with an audible exterior alarm. The exterior alarm must meet the requirements of NFPA 72 or equivalent and generate 45 decibels ten feet from the alarm, or more.

**508.1.3 Automatic fire sprinkler systems.** Automatic fire sprinkler system requirements shall be as set forth in Berkeley Fire Code Section 903.2.24.

**508.1.4 Utilities.** Utilities, pipes, furnaces, water heaters or other mechanical devices located in an exposed underfloor area of a building or structure shall be enclosed with material as required for exterior one hour fire resistive construction. Adequate covered access openings for servicing and ventilation of such facilities shall be provided as required by the applicable code.

**508.1.5 Water Service.** The water service to the site shall be installed with a 3/4" hose bib connection prior to beginning any construction involving any wood forming or framing. The person responsible for the construction shall have at the site a 75 ft 3/4" hose available at all times.

## Article 6. Fire Protection Requirements

### 19.49.070 Chapter 6 Fire Protection Requirements

Chapter 6 of the 2025 California Wildland-Urban Interface Code is partially adopted with adopted sections below. (Sections adopted by the State Fire Marshal remain unless modified below.)

#### SECTION 604—MAINTENANCE OF DEFENSIBLE SPACE

**604.3 Requirements.** *Hazardous vegetation and fuels around all buildings and structures shall be maintained in accordance with the following laws and regulations:*

1. *Public Resources Code, Section 4291.*
2. *California Code of Regulations, Title 14, Division 1.5, Chapter 7, Subchapter 3, Article 3, Section 1299.03.*
3. *California Government Code, Section 51182.*
4. *California Code of Regulations, Title 19, Division 1, Chapter 7, Subchapter 1, Section 3.07.*
5. *H106azardous vegetation and fuel mitigation and home hardening requirements in Section 604.3.1 and Section 604.3.2.*

#### **604.3 Defensible Space Requirements.**

**604.3 Requirements.** The code official may require a property owner to perform hazardous vegetation and fuel management on their land to maintain defensible space up to 100 feet from structures located on adjacent properties.

Property owners are not required or authorized by this code to enter the properties of another person to implement the requirements of this Section.

**604.3.1 Mitigations Required.** Within the locally designated Very High Fire Hazard Severity Zone a person who owns, leases, controls, operates, or maintains lands shall at all times:

1. Remove all branches within 10 feet of any chimney or stovepipe outlet.
2. Maintain the roof and roof gutters of any structure, and the surface of any attached deck, porch, landing, or stairs free of leaves, needles, or other deposited vegetative materials.
3. Maintain 6 feet of vertical clearance between branches and all other parts of trees or other vegetation overhanging the roof or other portion of any Structure or attached deck.
4. Zone 0: 0-5 feet from any structure: The requirements of 604.3.1.5 (Zone 1) below apply to this zone.
5. Zone 1: 5 to 30 feet from any structure:
  - a. Remove contiguous vegetation without adequate fuel separation to prevent spread to the structure.
  - b. Maintain any tree, shrub, or other plant adjacent to or overhanging any Structure or attached deck free of dead or dying wood.
  - c. Maintain trees to remove Ladder Fuels so that foliage, twigs, or branches are greater than 6' feet above the ground or surface fuels.
  - d. Where shrubs or small trees are located below or within a tree's drip line, the lowest tree branch shall be a minimum of three times the height of the understory shrubs or 6 feet, whichever is greater.
  - e. For structures on the same property, such as a shed, hot tub, and playset, ensure these structures are spaced at least 10 feet apart. Have at most three (3) of these structures within 30 feet of a building or structure.
    - i. Existing moveable structures shall comply with the above.
  - f. Relocate exposed firewood piles or lumber further than zone 1, unless they are completely covered in a fire-resistant covering approved by the State Fire Marshal's Building Material Listing Service.
6. Zone 2: 30 to 100 feet from any structure:
  - a. All exposed wood piles or lumber must have a perimeter of a minimum of ten feet (10 ft.) of non-combustible material, such as bare mineral soil, in all directions.
7. For both Zones 1 and 2:
  - a. Remove vegetative and combustible material capable of transmitting fire to a structure as determined by the Fire Code Official.
  - b. Dead and dying woody surface fuels and aerial fuels shall be removed. Loose surface litter, normally consisting of fallen leaves or needles, twigs, bark, cones, and small branches, shall be permitted to a maximum depth of three inches (3 in.).

- c. Cut annual grasses and annual forbs to a maximum height of four inches (4 in.) prior to, or upon reaching the senescent or ripening phase when the preponderance of vegetative material is cured or dead.
- d. Vertical Spacing: Limb trees by removing hanging bark, debris and branches that are within six feet (6 ft.) of the ground.
- e. Create horizontal and vertical spacing among shrubs and trees using the “Fuel Separation” method, the “Continuous Tree Canopy” method or a combination of both to achieve defensible space clearance requirements. Further guidance regarding these methods is contained in the State Board of Forestry and Fire Protection's, “General Guidelines for Creating Defensible Space, February 8, 2006,” incorporated herein by reference.
- f. Maintain horizontal spacing between shrubs.
  - i. Flat or mild slope (less than 20%): Two times the height of the shrub.
  - ii. Mild to moderate slope (20-40%): Four times the height of the shrub
  - iii. Moderate to steep slope (greater than 40%): Six times the height of the shrub
  - iv. Shrubs maintained as trees, such as limited stems and limbed up 6 feet or one third the height, whichever is greater, shall comply with requirements for trees, and not this section.
  - v. Consistent with fuel management objectives, steps should be taken to minimize erosion, soil disturbance, and the spread of flammable, non-native grasses and weeds.
- g. New trees shall be planted and maintained so that the tree’s drip line at maturity is a minimum of 10 feet from any structure or the canopy of other trees.

**604.3.2 Specific requirements for Panoramic Mitigation Area and Grizzly Peak Mitigation Area.** Effective January 1, 2026 the Grizzly Peak Mitigation Area and Panoramic Mitigation Area shall be subject to 604.3.2 in addition to 604.3.1

A person who owns, leases, controls, operates, or maintains lands shall at all times:

1. Zone 0: 0 to 5 feet from any structure:

- a. Maintain all areas within five (5) horizontal feet of any structure, outbuildings, attached deck or stairs, and the area under attached decks and stairs free of vegetative and non-vegetative combustible material.
  - i. This includes but is not limited to shrubs, vegetative ground cover, climbing vines, combustible boards, timbers, firewood, debris, synthetic lawn, wood mulch products, playsets, plastic trash and recycle cans, trellises, pergolas, shade coverings, planters, attached window boxes, privacy walls, boats, RVs, and other material that could be ignited by embers, radiant heat, or direct flame.
  - ii. Hardscape materials, such as gravel, pavers, concrete, and other noncombustible materials, including bare mineral soil, are permitted.
  - iii. Exception: Plants in pots are allowable if they are in areas that are not directly beneath, above, or adjacent to a window or eave; are kept in an unaffixed, non-combustible pot or container that is no larger than 5-gallon capacity; and set apart by 1.5 times the height of the plant or 12 inches, whichever is greater, from the structure and each other. These plants shall be no greater than 18 inches in height. Dead or dying material on, around and under the plants shall be removed.
  - iv. Exception: Hot tubs may be installed within five (5) horizontal feet of a structure, provided they comply with all Zone 0 clearance requirements applicable to structures.
- b. Trees: Existing trees and shrubs are permitted in Zone Zero if:
  - i. Maintained free of dead material.
  - ii. The crown (canopy) is maintained to create:
    1. Six feet (6') above the adjacent building or structure's roof
    2. Ten feet (10') away from chimneys and stovepipe outlets; and
    3. Five feet (5') of horizontal clearance from the sides of any Building, Structure, attached deck, porch, landing or stairs, and hot tubs within five (5) feet of a structure.
      - a. Exception: trees integrated into a deck must maintain 5 feet horizontal separation from the adjacent structure and branches must be 6 feet above the deck.
    4. 6' of vertical clearance above attached decks, attached, landing or stairs, and hot tubs within 5' of a structure.

- c. The roof and rain gutters of a Building or Structure shall be kept clear of leaves, needles, and vegetative material.
- d. Existing fences that are directly attached to a Building or Structure shall have a five foot (5 ft) non-combustible span at the point of attachment.
  - i. Existing fences that are not parallel to the adjacent structure wall, and are within 5 feet of that wall, shall have a non-combustible span within the first 5 feet of the structure perpendicular to the exterior structure wall.
  - ii. Existing parallel fences that do not touch the structure are allowed.
- e. After the effective date of this regulation, no new or replacement sections of combustible fence are permitted within 5 feet of a building or structure including an attached deck.
- f. Outbuildings are not permitted in Zone 0, unless constructed according to the standards in Chapter 7A (commencing with Section 701A.1) of Part 2 of Title 24 of the California Code of Regulations. Outbuildings that meet these standards shall be considered part of the Building or Structure for the purpose of measuring Zone 0.

## **SECTION 605—SPARK ARRESTORS**

**605.1 General.** Chimneys serving fireplaces, barbecues, incinerators or—decorative heating appliances in which solid or liquid fuel is used shall be provided with a spark arrestor. Spark arrestors shall be constructed of woven or welded wire screening of 12 USA standard gage wire (0.1046 inch) (2.66 mm) having openings not exceeding 1/2 inch (12.7 mm). The arrestor shall be securely attached to the chimney or stovepipe and shall be adequately supported. The use of bands, mollies, masonry anchors or mortar ties are recommended depending upon the individual need. See California Building Code Section 2113A.9.2 (“Spark arrestors”) for specifications.

## **SECTION 606—LIQUEFIED PETROLEUM GAS INSTALLATIONS**

**606.1 General.** The storage of liquefied petroleum gas (LP-gas) and the installation and maintenance of pertinent equipment shall be in accordance with the California-Berkeley Fire Code.

**606.2 Location of containers or tanks.** LP-gas containers or tanks shall be located within the defensible space in accordance with the California-Berkeley Fire Code.

### **Article 7. Referenced Standards**

#### **19.49.080 Chapter 7 Referenced Standards**

Chapter 7 of the 2025 California Wildland-Urban Interface Code is partially adopted with adopted sections below. (Sections adopted by the State Fire Marshal remain unless modified below.)

**BOF State Board of Forestry and Fire Protection**

RPC 2 (c) - General Guidelines for Creating Defensible Space, February 8, 2006

## CEC

### CEnC – 2025: California Energy Code

1.1.8.2.

## IAPMO

### CPC – 2025: California Plumbing Code

201.3

### CMC – 2025: California Mechanical Code

201.3

## NEC

### CEC – 2025: California Electrical Code

201.3

## Article 8. General Requirements

### 19.49.090 APPENDIX A – GENERAL REQUIREMENTS

**Appendix A** of the 2025 Wildland-Urban Interface Code is adopted and reproduced in its entirety subject to the modifications thereto which are set forth below.

### SECTION A101—GENERAL

**A101.1 Scope.** The provisions of this appendix establish general requirements applicable to new and existing properties located within wildland-urban interface areas.

**A101.2 Objective.** The objective of this appendix is to provide necessary fire protection measures to reduce the threat of wildfire in a wildland-urban interface area and improve the capability of controlling such fires.

### SECTION A102—VEGETATION CONTROL

**A102.1 General.** Vegetation control shall comply with Sections A102.2 through A102.4.

**A102.2 Clearance of brush or vegetative growth from roadways.** The code official is authorized to require areas within 10 feet (3048 mm) on each side of portions of fire apparatus access roads and driveways to be cleared of *nonfire-smart* vegetation growth.

**Exception:** Single specimens of trees, ornamental vegetative fuels or cultivated ground cover, such as green grass, ivy, succulents or similar plants used as ground cover, provided they do not form a means of readily transmitting fire.

~~**A102.3 Clearance of brush and vegetative growth from electrical transmission and distribution lines.** Clearance of brush and vegetative growth from electrical transmission and distribution lines shall be in accordance with Sections A102.3.1 through A102.3.2.3.~~

**Exception:** Sections A102.3.1 through A102.3.2.3 do not authorize persons not having legal right of entry to enter on or damage the property of others without consent of the owner.

**A102.3.1 Support clearance.** Persons owning, controlling, operating or maintaining electrical transmission or distribution lines shall have an approved program in place that identifies poles or towers with equipment and hardware types that have a history of becoming an ignition source, and provides a combustible free space consisting of a clearing of not less than 10 feet (3048 mm) in each direction from the outer circumference of such pole or tower during such periods of time as designated by the code official.

**Exception:** Lines used exclusively as telephone, telegraph, messenger call, alarm transmission or other lines classed as communication circuits by a public utility.

**A102.3.2 Electrical distribution and transmission line clearances.** Clearances between vegetation and electrical lines shall be in accordance with Sections A102.3.2.1 through A102.3.2.3.

**A102.3.2.1 Trimming clearance.** At the time of trimming, clearances not less than those established by Table A102.3.2.1 shall be provided. The radial clearances shown are minimum clearances that shall be established, at time of trimming, between the vegetation and the energized conductors and associated live parts.

**Exception:** The code official is authorized to establish minimum clearances different than those specified by Table A102.3.2.1 when evidence substantiating such other clearances is submitted to and approved by the code official.

| <b>TABLE A102.3.2.1—MINIMUM CLEARANCES BETWEEN VEGETATION AND ELECTRICAL LINES AT TIME OF TRIMMING</b> |                                                       |
|--------------------------------------------------------------------------------------------------------|-------------------------------------------------------|
| <b>LINE VOLTAGE</b>                                                                                    | <b>MINIMUM RADIAL CLEARANCE FROM CONDUCTOR (feet)</b> |
| 2,400–72,000                                                                                           | <b>4</b>                                              |
| 72,001–110,000                                                                                         | <b>6</b>                                              |
| 110,001–300,000                                                                                        | <b>10</b>                                             |
| 300,001 or more                                                                                        | <b>15</b>                                             |

For SI: 1 foot = 304.8 mm.

**102.3.2.2 Minimum clearance to be maintained.** Clearances not less than those established by Table A102.3.2.2 shall be maintained during such periods of time as designated by the code official. The site specific clearance achieved, at time of pruning, shall vary based on species growth rates, the utility company specific trim cycle, the potential line sway due to wind, line sag due to electrical loading and ambient temperature and the tree's location in proximity to the high voltage lines.

**Exception:** The code official is authorized to establish minimum clearances different than those specified by Table A102.3.2.2 when evidence substantiating such other clearances is submitted to and approved by the code official.

| <b>TABLE A102.3.2.2—MINIMUM CLEARANCES BETWEEN VEGETATION AND ELECTRICAL LINES TO BE MAINTAINED</b> |                                   |
|-----------------------------------------------------------------------------------------------------|-----------------------------------|
| <b>LINE VOLTAGE</b>                                                                                 | <b>MINIMUM CLEARANCE (inches)</b> |
| 750–35,000                                                                                          | 6                                 |
| 35,001–60,000                                                                                       | 12                                |
| 60,001–115,000                                                                                      | 19                                |
| 115,001–230,000                                                                                     | 30.5                              |
| 230,001–500,000                                                                                     | 115                               |
| For SI: 1 inch = 25.4 mm.                                                                           |                                   |

**102.3.2.3 Electrical power line emergencies.** During emergencies, the utility shall perform the required work to the extent necessary to clear the hazard. An emergency can include situations such as trees falling into power lines or trees in violation of Table A102.3.2.2.

**A102.4 Correction of condition.** The code official is authorized to give notice to the owner of the property on which conditions regulated by Section A102 exist to correct such conditions. If the owner fails to correct such conditions, the legislative body of the jurisdiction is authorized to cause the same to be done and make the expense of such correction a lien on the property where such condition exists.

## **SECTION A103—ACCESS RESTRICTIONS**

**A103.1 Restricted entry to public lands.** The code official is authorized to determine and publicly announce when wildland-urban interface areas shall be closed to entry and when such areas shall again be opened to entry. Entry on and occupation of wildland-urban interface areas, except public roadways, inhabited areas or established trails and campsites that have not been closed during such time when the wildland-urban interface area is closed to entry, is prohibited.

**Exceptions:**

1. Residents and owners of private property within wildland-urban interface areas and their invitees and guests going to or being on their lands.
2. Entry, in the course of duty, by peace or police officers, and other duly authorized public officers, members of a fire department and members of the Wildland Firefighting Service.

**A103.2 Trespassing on posted private property.** Where the code official determines that a specific area within a wildland-urban interface area presents an exceptional and continuing fire danger because of the density of natural growth, difficulty of terrain, proximity to structures or accessibility to the public, such areas shall be restricted or closed until changed conditions warrant termination of such restriction or closure. Such areas shall be posted in accordance with Section A103.2.1.

**A103.2.1 Signs.** Approved signs prohibiting entry by unauthorized persons and referring to this code shall be placed on every closed area.

**A103.2.2 Trespassing.** Entering and remaining within areas closed and posted is prohibited.

**Exception:** Owners and occupiers of private or public property within closed and posted areas; their guests or invitees; authorized persons engaged in the operation and maintenance of necessary utilities such as electrical power, gas, telephone, water and sewer; and local, state and federal public officers and their authorized agents acting in the course of duty.

**A103.3 Use of fire roads, fire breaks, fire trails and defensible space.** Motorcycles, motor scooters and motor vehicles shall not be driven or parked on, and trespassing is prohibited on, fire roads, fire breaks, fire trails or defensible space beyond the point where travel is restricted by a cable, gate or sign, without the permission of the property owners. Vehicles shall not be parked in a manner that obstructs the entrance to a fire road or defensible space.

**Exception:** Public officers acting within their scope of duty.

**A103.3.1 Obstructions.** Radio and television aerials, guy wires thereto, and other obstructions shall not be installed or maintained on fire roads, fire breaks, fire trails or defensible spaces, unless located 16 feet (4877 mm) or more above such fire road or defensible space.

**A103.3.2 Public access roads, fire roads, firebreaks and fire trails.** No person(s) shall use any public access road, fire road, firebreak or fire trail for the storage of any construction material, stationary construction equipment, construction office, portable refuse container, earth from any grading or excavating, or any other construction related activity.

**A103.4 Use of motorcycles, motor scooters, ultralight aircraft and motor vehicles.** Motorcycles, motor scooters, ultralight aircraft and motor vehicles shall not be operated within wildland-urban interface areas, without a permit by the code official, except on clearly established public or private roads designated for use by motorcycles, motor scooters, ultralight aircraft and motor vehicles. Permission from the property owner shall be presented when requesting a permit.

**A103.5 Tampering with locks, barricades, signs and address markers.** Locks, barricades, seals, cables, signs and address markers installed within wildland-urban interface areas, by or under the control of the code official, shall not be tampered with, mutilated, destroyed or removed.

**A103.5.1 Gates, doors, barriers and locks.** Gates, doors, barriers and locks installed by or under the control of the code official shall not be unlocked.

## **SECTION A104—IGNITION SOURCE CONTROL**

**A104.1 General.** Ignition sources shall be controlled in accordance with Sections A104.2 through A104.10.

**A104.2 Objective.** Regulations in this section are intended to provide the minimum requirements to prevent the occurrence of wildfires.

**A104.3 Clearance from ignition sources.** Clearance between ignition sources and grass, brush or other combustible materials shall be maintained at not less than 30 feet (9144 mm).

**A104.4 Smoking.** Where required by the code official, signs shall be posted stating NO SMOKING. ~~Persons shall not smoke within 15 feet (4572 mm) of combustible materials or nonfire-smart vegetation. Lighting, igniting or otherwise setting fire to or smoking tobacco, cigarettes, pipes, cigars, joints, or other device used to burn or heat a substance for inhalation in Wildland-Urban Interface areas are prohibited.~~

**Exception:** Places of habitation or in the boundaries of established smoking areas or campsites as designated by the code official.

**A104.5 Equipment and devices generating heat, sparks or open flames.** Equipment and devices generating heat, sparks or open flames capable of igniting nearby combustibles shall not be used in wildland-urban interface areas without a permit from the code official. See Berkeley Fire Code Sections 308.1.5 Open Flame Devices in Wildfire Risk Areas and 308.1.5.1 Signals and Markers.

**Exception:** Use of approved equipment within inhabited premises or designated campsites that are not less than 30 feet (9144 mm) from grass-, grain-, brush- or forest-covered areas.

**A104.6 Fireworks.** Fireworks shall not be used or possessed in wildland-urban interface areas.

**Exception:** Fireworks allowed by the code official under permit in accordance with the California Fire Code where not prohibited by applicable local or state laws, ordinances and regulations.

**A104.6.1 Authority to seize.** The code official is authorized to seize, take, remove or cause to be removed fireworks in violation of this section.

**A104.7 Outdoor fires.** Outdoor fires in wildland-urban interface areas shall comply with Sections A104.7.1 through A104.7.3.

**A104.7.1 General.** Persons shall not build, ignite or maintain any outdoor fire of any kind for any purpose in or on any wildland-urban interface area, except by the authority of a written permit from the code official.

**Exception:** Outdoor fires within inhabited premises or designated campsites where such fires are in a permanent barbecue, portable barbecue, outdoor fireplace, incinerator, fire pits or grill and are not less than 30 feet (9144 mm) from any combustible material or *nonfire-smart* vegetation.

**A104.7.2 Permits.** Permits shall incorporate such terms and conditions that will reasonably safeguard public safety and property. Outdoor fires shall not be built, ignited or maintained in or on hazardous fire areas under any of the following conditions:

1. When red flag conditions exist as defined by the National Oceanic and Atmospheric Administration.

2.4. When high winds are blowing.

3.2. When a person 17 years old or over is not present at all times to watch and tend such fire.

4.3. When a public announcement is made that open burning is prohibited. Permanent barbecues, portable barbecues, outdoor fireplaces, fire pits or grills shall not be used if solid or liquid fueled.

**A104.7.3 Restrictions.** Persons shall not use a permanent barbecue, portable barbecue, outdoor fireplace, incinerator, fire pit or grill for the disposal of rubbish, trash or combustible waste material.

**A104.8 Incinerators, outdoor fireplaces, permanent barbecues, fire pits and grills.** Incinerators, outdoor fireplaces, permanent barbecues, fire pits and grills shall not be built, installed or maintained in wildland-urban interface areas without prior approval of the code official. Existing incinerators, outdoor fireplaces, fire pits, permanent barbecues and grills shall be maintained in good repair and in a safe condition at all times. Openings in such appliances shall be provided with an approved spark arrester, screen or door.

**Exception:** When approved, unprotected openings in barbecues and grills necessary for proper functioning shall be allowed.

**A104.8.1 Maintenance.** Incinerators, outdoor fireplaces, permanent barbecues and grills shall be maintained in good repair and in a safe condition at all times. Openings in such appliances shall be provided with an approved spark arrester, screen or door.

**Exception:** Where approved by the code official, unprotected openings in barbecues and grills necessary for proper functioning.

**A104.9 Reckless behavior.** The code official is authorized to stop any actions of a person or persons if the official determines that the action is reckless and could result in an ignition of fire or spread of fire.

**A104.10 Planting vegetation under or adjacent to energized electrical lines.** Vegetation that, at maturity, would grow to within 10 feet (3048 mm) of the energized conductors shall not be planted under or adjacent to energized power lines.

**A104.11 Tracer Bullets, Tracer Charges, Rockets and Model Aircraft.** Tracer bullets and tracer charges shall not be possessed, fired or caused to be fired into or across Wildland-Urban Interface areas. Rockets, model planes, gliders and balloons powered with an engine, propellant or other feature liable to start or cause fire shall not be fired or projected into or across Wildland-Urban Interface Areas.

**A104.12 Explosives and Blasting.** Explosives shall not be possessed, kept, stored, sold, offered for sale, given away, used, discharged, transported or disposed of within Wildland-Urban Interface areas except by permit from the code official.

**A104.13 Apiaries.** Lighted and smoldering material shall not be used in connection with smoking bees in or upon Wildland-Urban Interface areas except by permit from the code official.

## SECTION A105—CONTROL OF STORAGE

**A105.1 General.** In addition to the requirements of the California Fire Code, storage and use of the materials shall be in accordance with Sections A105.2 through A105.4.2.

**A105.2 Hazardous materials.** Hazardous materials in excess of 10 gallons (37.8 L) of liquid, 200 cubic feet (5.66 m<sup>3</sup>) of gas, or 10 pounds (4.54 kg) of solids require a permit and shall comply with nationally recognized standards for storage and use.

**A105.3 Explosives.** Explosives shall not be possessed, kept, stored, sold, offered for sale, given away, used, discharged, transported or disposed of within wildland-urban interface areas, except by permit from the code official.

**A105.4 Combustible materials.** Outside storage of combustible materials such as, but not limited to, wood, rubber tires, building materials or paper products shall comply with the other applicable sections of this code and this section.

**A105.4.1 Individual piles.** Individual piles shall not exceed 5,000 square feet (465 m<sup>2</sup>) of contiguous area. Piles shall not exceed 50,000 cubic feet (1416 m<sup>3</sup>) in volume or 10 feet (3048 mm) in height.

**A105.4.2 Separation.** A clear space of not less than 40 feet (12 192 mm) shall be provided between piles. The clear space shall not contain combustible material or *nonfire-smart* vegetation.

## SECTION A106—DUMPING

**A106.1 Waste material.** Waste material shall not be placed, deposited or dumped in wildland-urban interface areas or in, on or along trails, roadways or highways or against structures in wildland-urban interface areas.

**Exception:** Approved public and approved private dumping areas.

**A106.2 Ashes and coals.** Ashes and coals shall not be placed, deposited or dumped in or on wildland-urban interface areas.

**Exceptions:**

1. In the hearth of an established fire pit, camp stove or fireplace.
2. In a noncombustible container with a tightfitting lid, which is kept or maintained in a safe location not less than 10 feet (3048 mm) from *nonfire-smart* vegetation or structures.
3. Where such ashes or coals are buried and covered with 1 foot (305 mm) of mineral earth not less than 25 feet (7620 mm) from *nonfire-smart* vegetation or structures.

## SECTION A107—PROTECTION OF PUMPS AND WATER STORAGE FACILITIES

**A107.1 General.** The reliability of the water supply shall be in accordance with Sections A107.2 through A107.5.

**A107.2 Objective.** The intent of this section is to increase the reliability of water storage and pumping facilities and to protect such systems against loss from intrusion by fire.

**A107.3 Fuel modification area.** Water storage and pumping facilities shall be provided with a defensible space of not less than 30 feet (9144 mm) clear of nonfire-resistive vegetation or growth around and adjacent to such facilities.

Persons owning, controlling, operating or maintaining water storage and pumping systems requiring this defensible space are responsible for clearing and removing *nonfire-smart* vegetation and maintaining the defensible space on the property owned, leased or controlled by said person.

**A107.4 Trees.** Portions of trees that extend to within 30 feet (9144 mm) of combustible portions of water storage and pumping facilities shall be removed.

**A107.5 Protection of electrical power supplies.** Where electrical pumps are used to provide the required water supply, such pumps shall be connected to a standby power source to automatically maintain electrical power in the event of power loss. The standby power source shall be capable of providing power for not less than 2 hours in accordance with Chapter 27 of the California Building Code, Section 1203 of the California Fire Code and the California Electrical Code.

**Exception:** A standby power source is not required where the primary power service to pumps is underground as approved by the code official.

## SECTION A108—LAND USE LIMITATIONS

**A108.1 General.** Temporary fairs, carnivals, public exhibitions and similar uses must comply with all other provisions of this code in addition to enhanced ingress and egress requirements.

**A108.2 Objective.** The increased public use of land or structures in wildland-urban interface areas increases the potential threat to life safety. The provisions of this section are intended to reduce that threat.

**A108.3 Permits.** Temporary fairs, carnivals, public exhibitions or similar uses shall not be allowed in a designated wildland-urban interface area, except by permit from the code official.

Permits shall incorporate such terms and conditions that will reasonably safeguard public safety and property.

**A108.4 Access roadways.** In addition to the requirements in Section 403, access roadways shall be not less than 24 feet (7315 mm) wide and posted NO PARKING. Two access roadways shall be provided to serve the permitted use area.

Where required by the code official to facilitate emergency operations, approved emergency vehicle operating areas shall be provided.

**SECTION A109—REFERENCED STANDARDS**

**A109.1 General.** See Table A109.1 for standards that are referenced in various sections of this appendix. Standards are listed by the standard identification with the effective date, standard title and the section or sections of this appendix that reference the standard.

| <b>TABLE A109.1—REFERENCED STANDARDS</b> |                                   |                                   |
|------------------------------------------|-----------------------------------|-----------------------------------|
| <b>STANDARD ACRONYM</b>                  | <b>STANDARD NAME</b>              | <b>SECTIONS HEREIN REFERENCED</b> |
| <i>CBC—25</i>                            | <i>California Building Code</i>   | <i>A107.5</i>                     |
| <i>CFC—25</i>                            | <i>California Fire Code</i>       | <i>A104.6, A105.1, A107.5</i>     |
| <i>CEC—25</i>                            | <i>California Electrical Code</i> | <i>A107.5</i>                     |

**Section 2.** Copies of this Ordinance shall be posted for two days prior to adoption in the display case located near the walkway in front of Council Chambers, 2134 Martin Luther King Jr. Way. Within 15 days of adoption, copies of this Ordinance shall be filed at each branch of the Berkeley Public Library and the title shall be published in a newspaper of general circulation.

\* \* \* \* \*

**ORDINANCE NO. ##,###-N.S.  
REPEALING AND RE-ENACTING BERKELEY MUNICIPAL CODE CHAPTER 19.48  
(BERKELEY FIRE CODE)**

BE IT ORDAINED by the Council of the City of Berkeley as follows:

**Section 1.** That Berkeley Municipal Code Chapter 19.48 is hereby repealed and reenacted as to read as follows:

**Chapter 19.48  
BERKELEY FIRE CODE\***

**Sections:**

- 19.48.010 Adoption of the California Fire Code including Appendix B – Fire-Flow Requirements for Buildings and Appendix L – Requirements for Fire Fighter Air Replenishment Systems**
- 19.48.020 Amendments to the California Fire Code**
- 19.48.030 Validity**

**Section 19.48.010 Adoption of the California Fire Code**

- A. The California Fire Code, 2022 edition, as adopted in Title 24, Part 9 of the California Code of Regulations, including Chapter 1 (excluding Section 103), Chapter 3, Section 503 of Chapter 5, Sections 1103.5.6 through 1103.5.6.3 (new sections as created by BMC 19.48.020, Amendments to the California Fire Code), Appendix Chapters D, E, F, L (as amended by BMC 19.48.020, Amendments to the California Fire Code) and O published by the International Code Council not included in the California Building Standards Code, are adopted by this reference into this Chapter, and are hereby adopted and made a part of this Chapter as though fully set forth herein, subject to the modifications thereto which are set forth this ordinance. One copy of this Code is on file in the office of the City Clerk of the City of Berkeley.
- B. This chapter shall be known as the "Berkeley Fire Code" and shall be referred to in this chapter as "this code".
- C. This Chapter will become effective on June 1, 2025.

**Section 19.48.020 Amendments to the California Fire Code**

The following additions, changes and deletions to the 2022 California Fire Code, as detailed below, are adopted as part of the Berkeley Fire Code.

## ATTACHMENT 1

**Chapter 1 of the California Fire Code is adopted in its entirety subject to the modifications thereto which are set forth below.**

### **CHAPTER 1 – SCOPE AND ADMINISTRATION**

#### **SECTION 101 SCOPE AND GENERAL REQUIREMENTS**

**[A] Section 101.1 Title.** These regulations shall be known as the Berkeley Fire Code ~~shall be known as the *Fire Code* of,~~ shall be known as the Berkeley Fire Code, hereinafter referred to as "this code."

#### **SECTION 102 APPLICABILITY**

**[A] 102.6 Historic buildings.** The provisions of this code relating to the construction, alteration, repair, enlargement, restoration, relocation or moving of buildings or structures shall not be mandatory for existing buildings or structures identified and classified by the state or local jurisdiction as historic buildings where such buildings or structures do not constitute a distinct hazard to life or property. Fire protection in designated historic buildings shall be provided with an approved fire protection plan as required in Section 1103.1.1 in accordance with the 2022 California Historical Code.

#### **SECTION 104 DUTIES AND POWERS OF THE FIRE CODE OFFICIAL**

**Section 104.13. Authority to arrest and issue citations.** The Fire Chief, or their designee shall have authority to arrest or to cite any person who violates any provision of this Chapter involving the International Fire Code or the California Building Standards Code regulations relating to fire and panic safety as adopted by the State Fire Marshal, in the manner provided for the arrest or release on citation and notice to appear with respect to misdemeanors or infractions, as prescribed by Chapters 5, 5c and 5d of Title 3, Part 2 of the California Penal Code, including Section 853.6, or as the same hereafter may be amended. It is the intent of the City Council that the immunities provided in Penal Code Section 836.5 are applicable to aforementioned officers and employees exercising their arrest or citation authority within the course and scope of their employment pursuant to this Chapter.

**Section 104.14 Authority to abate fire nuisance [Additional subsection].** The Fire Chief or the Fire Chief's designee shall have the authority to order the abatement of fire nuisances.

#### **SECTION 105 PERMITS**

**105.5.18 Flammable and combustible liquids.** An operational permit is required:

1. To use or operate a pipeline for the transportation within facilities of flammable or combustible liquids. This requirement shall not apply to the offsite transportation in pipelines regulated by the Department of Transportation (DOT) nor does it apply to piping systems.

## ATTACHMENT 1

2. To store, handle or use Class I liquids in excess of 5 gallons (19 L) in a building or in excess of 10 gallons (37.9 L) outside of a building, except that a permit is not required for the following:
    - 2.1 The storage or use of Class I liquids in the fuel tank of a motor vehicle, aircraft, motorboat, mobile power plant or mobile heating plant, unless such storage, in the opinion of the fire code official, would cause an unsafe condition.
    - 2.2 The storage or use of paints, oils, varnishes or similar flammable mixtures where such liquids are stored for maintenance, painting or similar purposes for a period of not more than 30 days.
  3. To store, handle or use Class II or Class IIIA liquids in excess of 25 gallons (95 L) in a building or in excess of 60 gallons (227 L) outside a building, except for fuel oil used in connection with oil-burning equipment.
  4. To store, handle or use Class IIIB liquids in excess of 110 gallons in containers, or in tanks or portable tanks for fueling motor vehicles at motor fuel-dispensing facilities or where connected to fuel-burning equipment.
- Exception:** Fuel oil and used motor oil used for space heating or water heating.
5. To remove Class I or II liquids from an underground storage tank used for fueling motor vehicles by any means other than the approved, stationary on-site pumps normally used for dispensing purposes.
  6. To operate tank vehicles, equipment, tanks, plants, terminals, wells, fuel-dispensing stations, refineries, distilleries and similar facilities where flammable and combustible liquids are produced, processed, transported, stored, dispensed or used.
  7. To place temporarily out of service (for more than 90 days) an underground, protected above-ground or above-ground flammable or combustible liquid tank.
  8. To change the type of contents stored in a flammable or combustible liquid tank to a material that poses a greater hazard than that for which the tank was designed and constructed.
  9. To manufacture, process, blend or refine flammable or combustible liquids.
  10. To engage in the dispensing of liquid fuels into the fuel tanks of motor vehicles at commercial, industrial, governmental or manufacturing establishments in accordance with Section 5706.5.4 or to engage in on-demand mobile fueling operations in accordance with Section 5707.
  11. To utilize a site for the dispensing of liquid fuels from tank vehicles into the fuel tanks of motor vehicles, marine craft and other special equipment at commercial, industrial, governmental or manufacturing establishments in accordance with Section 5706.5.4 or, where required by the fire code official, to utilize a site for on-demand mobile fueling operations in accordance with Section 5707.

**Section 105.5.55 Christmas tree sales lot.** An operational permit is required to operate a Christmas tree sales lot.

## ATTACHMENT 1

**Section 105.5.56 Escort convoy service.** Police and/or Fire Department convoy service is required for vehicle transportation of extremely hazardous materials.

**Section 105.5.57 Fire Fighter Air Replenishment System (FARS).** An annual operational permit is required to maintain a FARS system in accordance with Appendix L.

**Section 105.5.58 General use permit.** For any activity or operation not specifically described in this code, which the fire code official reasonably determines, may produce conditions hazardous to life or property.

**Section 105.5.59 Parking facility, special events]** An operational permit is required to use buildings or structures for vehicle parking, including parking for special events (i.e. football games, etc.).

**Section 105.6.25 Fire fighter air replenishment system (FARS).** A building permit is required for installation of or modification to a FARS system in accordance with Appendix L.

**Section 105.6.26 Window bars, operational constraints and opening control devices.** A building permit is required to install window bars or other equipment which imposes operational constraints and opening controls on emergency escape and rescue openings on exterior doors or windows of any sleeping rooms in accordance with fire code Section 1031.2.1 of this code.

### SECTION 107 FEES

**Section 107.2 Schedule of permit fees.** Where a permit is required, a fee for each permit shall be paid as required, in accordance with the schedule ~~as established by the applicable governing body.~~ of fees for permits and inspections as set forth by the City Council by resolution.

**Section 107.4 Work commencing before permit issuance.** A person who commences any work, activity or operation regulated by this code before obtaining the necessary permits shall be subject to a fee ~~established by the applicable governing authority, which shall be in addition to the required permit fees.~~ equivalent to three times the amount of the required fees to obtain a permit for that work, activity or operation regulated by this code.

**Section 107.7. Expense of securing emergencies.** The expense of securing any emergency that is within the responsibility for enforcement of the fire code official as given in Sections 104.1 or 104.11 is a charge against the person who caused the emergency. Damages and expenses incurred by any public agency having jurisdiction or any public agency assisting the agency having jurisdiction shall constitute a debt of such person and shall be collectible by the fire code official for proper distribution in the same manner as in the case of an obligation under contract expressed or implied. Expenses as stated above shall include, but not be limited to, equipment and personnel committed and any payments required by the public agency to outside business firms requested by the public agency to secure the emergency, monitor remediation, and clean up.

## SECTION 111 MEANS OF APPEALS

**Section 111.1 Board of appeals established. Appeals Procedure** In order to hear and decide appeals of orders, decisions or determinations made by the fire code official relative to the application and interpretation of this code, ~~there shall be and is hereby created a board of appeals. The board of appeals shall be appointed by the applicable governing authority and shall hold office at its pleasure. The board shall adopt rules of procedure for conducting its business and shall render all decisions and findings in writing to the appellant with a duplicate copy to the fire code official.~~ an appeal therefore may be taken to the City Council by the applicant or permit holder. Notice of the appeal must be filed with the City Clerk of the City of Berkeley within ten days from the date of mailing of the fire code official's decision to the applicant or permit holder. The notice of appeal shall contain a statement of the reasons for the appeal. The City Clerk shall forward one copy thereof to the fire code official. Within thirty days after the filing of the notice of appeal, the fire code official shall transmit to the City Council all their records pertaining to the decision appealed from.

**Section 111.1.1 Stay of Proceedings** The filing of the notice of appeal shall stay all proceedings by all parties in connection with the matter upon which the appeal is taken until determination of the appeal as hereinafter provided, unless the fire code official determines that such a stay could result in an imminent threat to public safety.

**Section 111.3 Qualifications.** ~~The board of appeals shall consist of members who are qualified by experience and training to pass on matters pertaining to hazards of fire, explosions, hazardous conditions or fire protection systems, and are not employees of the jurisdiction.~~ **Decisions:** The City Council shall review the action of the fire code official and shall do any one of the following:

- a. Refer the matter back to the fire code official.
- b. If the facts stated in or ascertainable from the application, the Notice of Appeal, the written statement of the fire code official setting forth the reason for their decision, and the other papers, if any, constituting the record do not, in the opinion of the City Council, warrant further hearing, the City Council may affirm the decision of the fire code official. Such decision shall be final.
- c. If, in the opinion of the City Council, said facts warrant further hearing, the City Council shall set the matter for hearing and shall give notice of the time and place of said hearing by mailing a copy of such notice by certified mail to the address of the applicant as stated in the Notice of Appeal, at least ten (10) days before the time fixed for the hearing. The City Council may continue the hearing from time to time.
- d. Following such hearing, the City Council shall reverse, affirm wholly or partly modify any decision of the fire code official, or make any other decisions or determinations or impose such conditions as the facts warrant. Such decision or determination shall be final.
- e. If none of the above actions have been taken by the City Council within thirty (30) days from the date the appeal first appears on the City Council agenda, then the decision of the fire code official shall be deemed affirmed and the appeal shall be deemed dismissed.

## ATTACHMENT 1

- f. If the appeal is set for hearing but the disposition of the appeal has not been determined within ninety (90) days from the date the appeal first appears on the City Council agenda, then the decision of the fire code official shall be deemed affirmed and the appeal deemed dismissed.

**111.4 Administration.** The fire code official shall take immediate action in accordance with the decision of the ~~Board~~ City Council .

### SECTION 112 VIOLATIONS

**Section 112.1 Unlawful acts [Amended subsection].** It shall be unlawful for a person, firm or corporation to erect, construct, alter, repair, remove, demolish or utilize a building, occupancy, premises or system regulated by this code, or cause same to be done, in conflict with or in violation of any of the provisions of this code, or to create, maintain or allow to continue any fire hazard.

**Section 112.4 Violation penalties.** Persons who shall violate a provision of this code or shall fail to comply with any of the requirements thereof or who shall erect, install, alter, repair or do work in violation of the approved construction documents or directive of the fire code official, or of a permit or certificate used under provisions of this code, shall be guilty of a [~~SPECIFY OFFENSE~~], ~~punishable by a fine of not more than [AMOUNT] dollars or by imprisonment not exceeding [NUMBER OF DAYS], or both such fine and imprisonment misdemeanor, but may be cited or charged, at the election of the enforcing officer or City Attorney, as infractions, subject to an election by the defendant under Penal Code Subsection 17 (d).~~ Each day that a violation continues after due notice has been served shall be deemed a separate offense. In addition to all other legal remedies, civil or criminal (as set forth above), any violation of this code constitutes a public nuisance in accordance with B.M.C Chapter 1.26, and is subject to all provisions of B.M.C. Chapter 1.26, as well as abatement under B.M.C. Chapter 1.24, "Abatement of Nuisances". All such violations are also subject to the issuance of an administrative citation in accordance with B.M.C Chapter 1.28 at the discretion of the enforcing officer or the City Attorney.

### SECTION 114 UNSAFE STRUCTURES OR EQUIPMENT

**Section 114.7 Summary abatement.** Where conditions exist that are deemed hazardous to life and property, the fire code official or fire department official in charge of the incident is authorized to abate summarily such hazardous conditions that are in violation of this code. Where the owner does not comply with an abatement order under Section 114.4 within the period specified, the City of Berkeley may perform or cause to be performed the necessary work. The costs incurred shall be recoverable under the procedures in Section 114.7.1

**Section 114.7.1 Abatement process [Additional subsection]** The abatement process shall be conducted in accordance with the notice and hearing requirements of the nuisance abatement provisions of Berkeley Municipal code chapter 1.24, including summary abatements of structures or premises determined by the City of Berkeley to constitute an imminent hazard or emergency condition.

## ATTACHMENT 1

**Chapter 2 of the California Fire Code is adopted in its entirety subject to the modifications thereto which are set forth below.**

### CHAPTER 2 – DEFINITIONS

#### SECTION 202 GENERAL DEFINITIONS

**Section 202 Definitions – BBERKELEY MARINA.** The area shall mean all those, parts of the City of Berkeley west of the Interstate 80 Freeway

**Section 202 (Definitions — F).** FIRE HAZARD. Anything or act which increases or could cause an increase of the hazard or menace of fire to a greater degree than that customarily recognized as normal by persons in the public service regularly engaged in preventing, suppressing or extinguishing fire or anything or act which could obstruct, delay, hinder or interfere with the operations of the fire department or the egress of occupants in the event of fire. Fire hazards as defined herein are hereby declared to be public nuisances subject to abatement by the City of Berkeley.

**Section 202 (Definitions — F).** FIRE NUISANCE. Anything or act, which is annoying, unpleasant, offensive or obnoxious because of fire.

**Section 202 (Definitions – J).** JURISDICTION. The City of Berkeley. The governmental unit that has adopted this code.

**Section 202 (Definitions — W).** WASTE OIL is a Class III-B waste liquid resulting from the use of Class III-B combustible liquids such as waste motor oil, hydraulic oil, lubricating oil, brake fluids and transmission fluids.

**Chapter 5 of the California Fire Code is adopted in its entirety subject to the modifications thereto which are set forth below.**

### CHAPTER 5 – FIRE SERVICE FEATURES

#### SECTION 504 ACCESS TO BUILDING OPENINGS AND ROOFS

**Section 504.1.1 Marking of Exterior Building Openings.** Where exterior doorways are not otherwise marked with identification such as building addresses, room/suite numbers or business names which identify the area(s) they provide access to, or a functional description for the space, such opening shall be provided with signs or labels indicating the areas they serve. Doorways to be marked shall include but are not limited to doors serving building circulation (such as stairwells/exit passageways), potential hazards (such as trash rooms), and building service and utility spaces (such as electrical, gas, HVAC and elevator machine rooms). Signs/labels shall be permanent, weather and sunlight resistant with lettering not less than  $\frac{3}{4}$ " high with a  $\frac{1}{16}$ " width stroke on a contrasting background. Such signs or labels shall be affixed to the door frame or wall above the door. Such signs and labels shall be maintained.

**Exception:** Doors associated with private dwellings, the main entrance to normally occupied spaces or when determined to be unnecessary by the fire code official.

## ATTACHMENT 1

**Chapter 7 of the California Fire Code is adopted in its entirety subject to the modifications thereto which are set forth below.**

### CHAPTER 7 – FIRE AND SMOKE PROTECTION FEATURES

#### SECTION 705 DOOR AND WINDOW OPENINGS

**Section 705.2.5 Smoke - and heat-activated doors.** Smoke-activated doors shall be maintained to self-close or automatically close upon detection of smoke. Existing fusible-link-type automatic-door closing devices are permitted if the fusible-link rating does not exceed 135°F (57°C). Doors required for fire and smoke separation for interior exit stairways and floor separation in R-1 or R-2 occupancies shall not be maintained in an open position with fusible links.

**Chapter 9 of the California Fire Code is adopted in its entirety subject to the modifications thereto which are set forth below.**

### CHAPTER 9 – FIRE PROTECTION AND LIFE SAFETY SYSTEMS SECTION 903 AUTOMATIC SPRINKLER SYSTEMS

**Section 903.2.10.1 Commercial parking garages.** An automatic sprinkler system shall be provided throughout buildings used for storage of commercial motor vehicles ~~where the fire area exceeds 5,000 square feet (464 m<sup>2</sup>).~~

**Section 903.2.11.1 Stories without openings.** An automatic sprinkler system shall be installed throughout all buildings having stories, including basements, ~~of all buildings where the floor area exceeds 1,500 square feet (139.4 m<sup>2</sup>)~~ and where the story does not comply with the following types of exterior wall openings:

1. Openings below grade that lead directly to ground level by an exterior stairway complying with Section 1011 or an outside ramp complying with Section 1012. Openings shall be located in each 50 linear feet (15 240 mm), or fraction thereof, of exterior wall in the story on not fewer than one side. The required openings shall be distributed such that the lineal distance between adjacent openings does not exceed 50 feet (15 240 mm).
2. Openings entirely above the adjoining ground level totaling not less than 20 square feet (1.86 m<sup>2</sup>) in each 50 linear feet (15 240 mm), or fraction thereof, of exterior wall in the story on not fewer than one side. The required openings shall be distributed such that the lineal distance between adjacent openings does not exceed 50 feet (15 240 mm) The height of the bottom of the clear opening shall not exceed 44 inches (1118 mm) measured from the floor.

## ATTACHMENT 1

**Section 903.2.11.2. Rubbish, Recycling and linen chutes.** An automatic sprinkler system shall be installed at the top of rubbish and linen chutes and in their terminal rooms. Chutes shall have additional sprinkler heads installed at alternate floors and at the lowest intake. Where a rubbish chute extends through a building more than one floor below the lowest intake, the extension shall have sprinklers installed that are recessed from the drop area of the chute and protected from freezing in accordance with Section 903.3.1.1. Such sprinklers shall be installed at alternate floors, beginning with the second level below the last intake and ending with the floor above the discharge. Access to sprinklers in chutes shall be provided for servicing. Activation of any fire sprinkler in a chute shall activate a separate water flow switch to indicate waterflow in the chute. All fire sprinklers in the chute shall be controlled by a separate, electrically supervised control valve with tamper switch.

**Section 903.2.22 Structures in the Berkeley Marina Area.** An automatic sprinkler system shall be installed in all structures located in the Berkeley Marina Area in accordance with NFPA 13 standards.

**Exceptions:** Gear lockers not designed to permit human entry, municipal restrooms unattached to other structures, the existing City of Berkeley Harbor Master's office, and any temporary construction site structures.

**Section 903.2.23 Public Self-Storage Buildings.** An automatic sprinkler system shall be installed in any building erected or existing building that was converted and/or subdivided for public self-storage use on or after August 19, 1982, in accordance with NFPA 13 standards.

**Section 903.2.24 Environmental Safety - Residential District.** Reserved

**Section 903.3.1.2 NFPA 13R sprinkler systems.** Automatic sprinkler systems in Group R occupancies shall be permitted to be installed throughout in accordance with NFPA 13R *as amended in Chapter 80.*

1. Four stories or less above grade plane.
2. The floor level of the highest story is 30 feet (9144mm) or less above the lowest level of fire department vehicle access.
3. The floor level of the lowest story is 30 feet (9144mm) or less below the lowest level of fire department access.

The number or stores of Group R occupancies constructed in accordance with Sections 510.2 and 510.4 of the *California Building Code* shall be measured from grade plane.

**Exception:** Sprinkler systems in residential / commercial mix-use buildings are to be in accordance with NFPA 13.

**Section 903.3.9 Floor control valves.** Floor control valves and waterflow detection assemblies shall be installed at each floor where any of the following occur:

1. Buildings where the floor level of the highest story is located ~~more than~~ 30 feet or more above the lowest level of fire department vehicle access.
2. Buildings that are ~~four~~ three or more stories in height.
3. Buildings that are two or more stories below the highest level of fire department vehicle access.

## ATTACHMENT 1

**Exception:** In Group R-3 and R-3.1 occupancies, floor control valves and waterflow detection assemblies shall not be required.

**Section 907.2 Where required—new buildings and structures.** An approved fire alarm system installed in accordance with the provisions of this code and NFPA 72 shall be provided in new buildings and structures in accordance with Sections 907.2.1 through 907.2.29 and provide occupant notification in accordance with Section 907.5, unless other requirements are provided by another section of this code.

Not fewer than one manual fire alarm box shall be provided in an approved location to initiate a fire alarm signal for fire alarm systems employing automatic fire detectors or water-flow detection devices. ~~Where an automatic and manual, or a manual fire alarm system is required by this code or Berkeley local ordinance, other sections of this code allow elimination of fire alarm boxes is prohibited. due to sprinklers or automatic fire alarm systems, a single fire alarm box shall be installed at a location approved by the enforcing agency.~~

### **Exceptions:**

~~1. The manual fire alarm box is not required for fire alarm control units dedicated to elevator recall control, supervisory service and fire sprinkler monitoring.~~

~~2. The manual fire alarm box is not required for Group R-2 occupancies unless required by the fire code official to provide a means for fire watch personnel to initiate an alarm during a sprinkler system impairment event. Where provided, the manual fire alarm box shall not be located in an area that is open to the public.~~

~~3. The manual fire alarm box is not required to be installed when approved by the fire code official.~~

**Section 907.2.1 Group A.** A manual fire alarm system that activates the occupant notification system in accordance with Section 907.5 shall be installed in Group A occupancies where the occupant load due to the assembly occupancy is 300 or more, or where the Group A occupant load is more than 100 persons above or below the lowest level of exit discharge. Group A occupancies not separated from one another in accordance with Section 707.3.10 of the *California Building Code* shall be considered as a single occupancy for the purposes of applying this section. Portions of Group E occupancies occupied for assembly purposes *with an occupant load of less than 1000* shall be provided with a fire alarm system as required for the Group E occupancy.

~~**Exception:** Manual fire alarm boxes are not required where the building is equipped throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.1 and the occupant notification appliances will activate throughout the notification zones upon sprinkler water flow.~~

*Every Group A building used for educational purposes shall be provided with a manual or automatic fire alarm system. This provision shall apply to, but shall not necessarily be limited to, every community college and university.*

**Exception:** *Privately owned trade or vocational schools or any firm or company which provides educational facilities and instruction for its employees.*

**Section 907.2.2 Group B.** A manual fire alarm system, which activates the occupant notification system in accordance with Section 907.5, shall be installed in Group B occupancies where one of the following conditions exists:

1. The combined Group B occupant load of all floors is 500 or more.
2. The Group B occupant load is more than 100 persons above or below the lowest level of exit discharge.
3. The fire area contains an ambulatory care facility.
4. *For Group B occupancies containing educational facilities, see Section 907.2.2.2.*

~~**Exception:** Manual fire alarm boxes are not required where the building is equipped throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.1 and the occupant notification appliances will activate throughout the notification zones upon sprinkler water flow.~~

**Section 907.2.4 Group F.** A manual fire alarm system that activates the occupant notification system in accordance with Section 907.5 shall be installed in Group F occupancies where both of the following conditions exist:

1. The Group F occupancy is two or more stories in height.
2. The Group F occupancy has a combined occupant load of 500 or more above or below the lowest level of exit discharge.

~~**Exception:** Manual fire alarm boxes are not required where the building is equipped throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.1 and the occupant notification appliances will activate throughout the notification zones upon sprinkler water flow.~~

**Section 907.2.7 Group M.** A manual fire alarm system that activates the occupant notification system in accordance with Section 907.5 shall be installed in Group M occupancies where one of the following conditions exists:

1. The combined Group M occupant load of all floors is 500 or more persons.
2. The Group M occupant load is more than 100 persons above or below the lowest level of exit discharge.

**Exceptions:**

1. A manual fire alarm system is not required in covered or open mall buildings complying with Section 402 of the *California Building Code*.
2. ~~Manual fire alarm boxes are not required where the building is equipped throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.1 and the occupant notification appliances will automatically activate throughout the notification zones upon sprinkler water flow.~~

**Section 907.2.8.1 Manual fire alarm system.** A manual and automatic fire alarm system that activates the occupant notification system in accordance with Section 907.5 shall be installed in Group R-1 occupancies.

**Exceptions:**

1. ~~A manual fire alarm system is not required in buildings not more than two stories in height where all individual sleeping units and contiguous attic and crawl spaces to those units are separated from each other and public or common areas by not less than 1-hour fire partitions and each individual sleeping unit has an exit directly to a public way, egress court or yard.~~
2. ~~Manual fire alarm boxes are not required throughout the building where all the following conditions are met:~~
  - 2.1. ~~The building is equipped throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.1 or 903.3.1.2.~~
  - 2.2. ~~The notification appliances will activate upon sprinkler water flow.~~
  - 2.3. ~~Not fewer than one manual fire alarm box is installed at an approved location.~~

**Section 907.2.8.2 Manual and Automatic fire alarm systems ~~smoke detection system.~~** ~~An A manual and automatic smoke detection fire alarm system that activates the occupant notification system in accordance with Section 907.5 shall be installed throughout all interior corridors and common areas of Group R-1 occupancies. The detection device for this purpose shall be a smoke detector (or heat detector as approved), which is system connected and electronically supervised serving sleeping units.~~

**Exception:** ~~An automatic smoke detection system is not required in buildings that do not have interior corridors serving sleeping units and where each sleeping unit has a means of egress door opening directly to an exit or to an exterior exit access that leads directly to an exit.~~

**Section 907.2.9.1 Automatic and Mmanual fire alarm system.** ~~An automatic and manual fire alarm system that activates the occupant notification system in accordance with Section 907.5 shall be installed in Group R-2 occupancies where any of the following conditions apply:~~

1. ~~The building is three or more stories in height and Any any dwelling unit or sleeping unit is located three or more stories above the lowest level of exit discharge.~~
2. Any dwelling unit or sleeping unit is located more than one story below the highest level of exit discharge of exits serving the dwelling unit or sleeping unit.
3. The building contains more than 16 dwelling units or sleeping units.
4. *Congregate residences with more than 16 occupants.*

**Exceptions:**

1. A fire alarm system is not required in buildings not more than two stories in height where all dwelling units or sleeping units and contiguous attic and crawl spaces are separated from each other and public or common areas by not less than 1-hour fire partitions and each dwelling unit or sleeping unit has an exit directly to a public way, egress court or yard.

## ATTACHMENT 1

- ~~2. Manual fire alarm boxes are not required where the building is equipped throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.1 or 903.3.1.2 and the occupant notification appliances will automatically activate throughout the notification zones upon a sprinkler water flow.~~
3. 2. A fire alarm system is not required in buildings that do not have interior corridors serving dwelling units and are protected by an approved automatic sprinkler system installed in accordance with Section 903.3.1.1 or 903.3.1.2, provided that dwelling units either have a means of egress door opening directly to an exterior exit access that leads directly to the exits or are served by open-ended corridors designed in accordance with Section 1027.6, Exception 3.

**Section 914.3.9 Fire Fighter Air Replenishment Systems.** New high-rise buildings shall install an approved Fire Fighter Air Replenishment System (FARS) or equivalent equipment or systems as determined by the fire code official to provide a breathing air supply for firefighting self-contained breathing air tanks. Such system or equipment shall provide adequate pressurized breathing air supply through a permanent piping system or other means acceptable to the fire code official for the replenishment of portable life sustaining air equipment carried by fire department, rescue and other personnel in the performance of their duties. Design, installation, testing and maintenance of such air replenishment systems shall be made in accordance with Appendix Chapter F of the California Plumbing Code. Each property owner shall be responsible for maintaining such equipment or systems including annual air sampling and testing.

**Exceptions:**

1. Buildings equipped with Firefighter Access Elevators as required by Berkeley Building Code section 403.6.1
2. Where an alternate method of supplying breathing air replenishment is approved by the fire code official.

Chapter 11 of the California Fire Code is adopted in its entirety subject to the modifications thereto which are set forth below.

## CHAPTER 11 – CONSTRUCTION REQUIREMENTS FOR EXISTING BUILDINGS

### SECTION 1103 FIRE SAFETY REQUIREMENTS FOR EXISTING BUILDINGS

**Section 1103.5 Sprinkler systems.** An automatic sprinkler system shall be provided in existing buildings in accordance with Section 1103.5.1 through 1103.5.5-6.3

#### **SECTION 1103.5.6 AUTOMATIC SPRINKLER REQUIREMENTS FOR EXISTING HOTELS**

**Section 1103.5.6.1 Definitions.** For the purposes of this Section, the following terms shall be defined as follows:

1. "Hotel" shall mean any building, including motels, dormitories, rooming houses, fraternity houses and sorority houses, which contain six or more rooms which were intended or designed to be used, or which are used, for the purposes of renting, hiring or letting to residential occupants for sleeping purposes but shall not include apartment buildings as defined in this code.
2. "Story" is as defined in the Berkeley Building Code.
3. "First Story" is as defined in the Berkeley Building Code.
4. "Basement" is as defined in the Berkeley Building Code.
5. "Balcony, Exterior Exit" shall mean a landing or porch projecting from the wall of a building which serves as a required exit. The long side shall be at least 50 percent directly open to the exterior, and the open area above the guardrail shall be so configured as to prevent the accumulation of smoke or toxic gases.

**Application:** This section shall apply to every hotel in which the rooms used for sleeping are rented or let above the ground floor, if the hotel was built prior to 1992, and also meets one of the following two conditions:

The height of the hotel is three or more stories or two stories plus an inhabited basement, which is used for purposes other than exclusively servicing the maintenance and other needs of the building; or the hotel contains 20 or more rooms, or regularly accommodates 20 or more residential occupants.

**Exception:** No hotel in which the exits from sleeping rooms lead either to the outside of the building either directly or via approved exit balconies with approved exterior stairways(s) in accordance with the requirements of the Berkeley Building Code is required to comply with this section.

**Section 1103.5.6.2 Types of Fire Sprinklers.** In the sleeping units of the building, only residential or quick response sprinkler heads shall be used.

**Section 1103.5.6.3 Supervision of fire sprinkler systems.** All automatic sprinkler systems installed under this subsection shall be monitored for supervision and alarms in accordance with Section 903.4.

ATTACHMENT 1

**Section 1103.7 Fire Alarm Systems.** An approved fire alarm system shall be installed in existing buildings and structures in accordance with Sections 1103.7.1 through 1103.7.6 and provide occupant notification in accordance with Section 907.5 unless other requirements are provided by other sections of this code. Existing high-rise buildings shall comply with Section 1103.7.9. Where an automatic and manual or a manual fire alarm system is required by this code or Berkeley local ordinance, elimination of fire alarm boxes in buildings equipped with an approved sprinkler system is prohibited.

**Exception:** Occupancies with an existing, previously approved fire alarm system.

**Section 1103.7.5.1 Group R-1 hotels, and motels, and congregate residences manual and automatic fire alarm system.** A manual and automatic fire alarm system that activates the occupant notification system in accordance with Section 907.5 shall be installed in existing Group R-1 hotels, and motels, and congregate residences ~~more than~~ with three or more stories or ~~with more than 20~~ or more sleeping units.

**Exceptions:**

- ~~1. A manual fire alarm system is not required in buildings less than two stories in height where all sleeping units, attics and crawl spaces are separated by 1-hour fire-resistance-rated construction and each sleeping unit has direct access to a public way, egress court or yard.~~
- ~~2. A manual fire alarm system is not required in buildings not more than three stories in height with not more than 20 sleeping units and equipped throughout with an automatic sprinkler system installed in accordance with Sections 903.3.1.1 or 903.3.1.2.~~
- ~~3. Manual fire alarm boxes are not required throughout the building where the following conditions are met:
  - ~~3.1. The building is equipped throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.1 or 903.3.1.2.~~
  - ~~3.2. The notification appliances will activate upon sprinkler water flow.~~
  - ~~3.3. Not less than one manual fire alarm box is installed at an approved location.~~~~

**Section 1103.7.6 Group R-2.** A manual and automatic fire alarm system that activates the occupant notification system in accordance with Section 907.5 shall be installed in existing Group R-2 occupancies three or more stories in height or with 16 or more dwelling or sleeping units. Congregate residences shall retrofit existing manual-only fire alarm systems with manual and automatic fire detection. Other types of R-2 occupancies (such as apartment buildings) shall retrofit existing manual-only fire alarm systems with manual and automatic fire detection when the existing fire alarm control unit is replaced for any reason. Automatic detection shall be accomplished by use of a smoke detector (or heat detector as approved), which is system connected and electronically supervised. Detectors shall be installed in all interior corridors and common areas.

**Exceptions:**

1. Where each living unit is separated from other contiguous living units by fire barriers having a fire-resistance rating of not less than 3/4 hour, and where each living unit has either its own independent exit or its own independent stairway or ramp discharging at grade.
- ~~2. A separate fire alarm system is not required in buildings that are equipped throughout with an approved supervised automatic sprinkler system installed in accordance with Section 903.3.1.1 or 903.3.1.2 and having a local alarm to notify all occupants.~~
3. A fire alarm system is not required in buildings that do not have interior corridors serving dwelling units and are protected by an approved automatic sprinkler system installed in accordance with Section 903.3.1.1 or 903.3.1.2, provided that dwelling units either have a means of egress door opening directly to an exterior exit access that leads directly to the exits or are served by open ended corridors designed in accordance with Section 1027.6, Exception 3.
4. A fire alarm system is not required in buildings that do not have interior corridors serving dwelling units, do not exceed three stories in height and comply with both of the following:
  - 4.1. Each dwelling unit is separated from other contiguous dwelling units by fire barriers having a fire-resistance rating of not less than 3/4 hour.
  - 4.2. Each dwelling unit is provided with smoke alarms complying with the requirements of Section 907.2.11.

**Section 1103.7.10 Monitoring of Group R Occupancies.** All existing R occupancies that are required to provide both a fire alarm and fire suppression system shall have the system monitored by a central station, remote supervising station, or proprietary supervising station.

ATTACHMENT 1

**Chapter 49 of the California Fire Code is adopted in its entirety subject to the modifications thereto which are set forth below.**

**CHAPTER 49 – REQUIREMENTS FOR WILDLAND-URBAN INTERFACE FIRE AREAS**

**SECTION 4902 DEFINITIONS**

**Section 4902.1 General.** *For the purpose of this chapter, certain terms are defined as follows:*

**DIRECTOR.** Director of the California Department of Forestry and Fire Protection (CAL FIRE).

**FIRE PROTECTION PLAN.** A document prepared for a specific premises, project or development, either existing or proposed for a Wildland-Urban Interface (WUI) area. It describes ways to minimize and mitigate potential for loss from wildfire exposure.

**FIRE HAZARD SEVERITY ZONES.** Geographical areas designated pursuant to California Public Resources Codes, Sections 4201 through 4204 and classified as Very High, High, or Moderate in State Responsibility Area or as Local Agency Very High Fire Hazard Severity Zones designated pursuant to California Government Code, Sections 51175 through 51189.

The California Code of Regulations, Title 14, Section 1280 entitles the maps of these geographical areas as "Maps of the Fire Hazard Severity Zones in the State Responsibility Area of California."

**FLATLANDS MITIGATION AREA (ZONE 1)** encompasses the entire City of Berkeley except for areas in the Hills Mitigation Area, Panoramic Mitigation Area and Grizzly Peak Mitigation Area.

**FUEL BREAK.** A natural or human caused change in fuel characteristics which affects fire behavior so that fires burning into them can be more readily controlled (NWCG PMS 205).

**FIRE-RESISTANT VEGETATION.** Plants, shrubs, trees and other vegetation that exhibit properties, such as high moisture content, little accumulation of dead vegetation, and low sap or resin content, that make them less likely to ignite or contribute heat or spread flame in a fire than native vegetation typically found in the region.

[Note: The following sources contain examples of types of vegetation that can be considered fire-resistant vegetation (Fire-resistant Plants for Home Landscapes, A Pacific Northwest Extension publication; Home Landscaping for Fire, University of California Division of Agriculture and Natural Resources; Sunset Western Garden Book)].

**GRIZZLY PEAK MITIGATION AREA (ZONE 4)** encompasses those areas of the city east of Grizzly Peak Boulevard to the city boundary.

## ATTACHMENT 1

Homes addressed on, or with a structural frontage on either side of Grizzly Peak Boulevard are included in the area.

The Grizzly Peak Mitigation Area is designated as a Very-High Fire Hazard Severity Zone.

**HILLS MITIGATION AREA (ZONE 2)** encompasses those areas designated as Very High or High Fire Hazard Severity Zones that are not included in the Grizzly Peak Mitigation Area or Panoramic Mitigation Area.

This area includes areas of the City east / north east of the line formed by these roads. Homes addressed on, or with a structural frontage on either side of these road segments are included in the zone:

- a. The Arlington Avenue from the Kensington Border to Marin Avenue
- b. Sutter Street from the Southern portal of the Northbrae Tunnel to Eunice Street
- c. Eunice Street from Sutter Street to Spruce Street
- d. Spruce Street from Eunice Street to Hearst Avenue
- e. Gayley Road from Hearst Avenue to Stadium Rim Way
- f. Piedmont Avenue from Stadium Rim Way to Dwight Way
- g. Warring Street from Dwight Way to Derby Street
- h. Belrose Avenue from Derby Street to Garber Street
- i. Claremont Boulevard from Garber Street to Claremont Avenue
- j. Claremont Avenue from Claremont Boulevard to the Oakland Border
- k. Tunnel Road from Ashby Avenue to the Oakland Border

**IGNITION-RESISTANT MATERIAL.** A type of building material that complies with the requirements in Section 704A.2 in the California-Berkeley Building Code.

**LOCAL RESPONSIBILITY AREAS (LRA).** Areas of the state in which the financial responsibility of preventing and suppressing fires is the primary responsibility of a city, county, city and county, or district.

**PANORAMIC MITIGATION AREA (ZONE 3)** encompasses those areas of the city bounded by the line formed by these roads and by the City Limit to the east.

The entirety of the Panoramic Mitigation Area is designated as a Very High Fire Hazard Severity Zone. Homes addressed on, or with a structural frontage on either side of these road segments are included in the zone:

- a. Canyon Road from the Oakland border to Stadium Rim Way
- b. Stadium Rim Way from Canyon Road to Bancroft Way
- c. Bancroft Way from Stadium Rim Way to Prospect Street
- d. Prospect Street from Bancroft Way to Bancroft Steps
- e. Bancroft Steps from Prospect Street to Warring Street

## ATTACHMENT 1

- f. Bancroft Way from Warring Street to Piedmont Avenue
- g. Piedmont Avenue from Bancroft Way to Dwight Way
- h. Dwight Way from Piedmont Avenue to the Oakland border

**STATE RESPONSIBILITY AREA (SRA).** Lands that are classified by the Board of Forestry pursuant to Public Resources Code Section 4125 where the financial responsibility of preventing and suppressing wildfires is primarily the responsibility of the state.

**WILDFIRE.** Any uncontrolled fire spreading through vegetative fuels that threatens to destroy life, property, or resources as defined in Public Resources Code, Sections 4103 and 4104.

**WILDFIRE EXPOSURE.** One or a combination of radiant heat, convective heat, direct flame contact and burning embers being projected by vegetation fire to a structure and its immediate environment.

**WILDLAND-URBAN INTERFACE (WUI).** A geographical area identified by the state as a "Fire Hazard Severity Zone" in accordance with the Public Resources Code, Sections 4201 through 4204, and Government Code, Sections 51175 through 51189, or other areas designated by the enforcing agency to be at a significant risk from wildfires.

### **SECTION 4903 PLANS**

**Section 4903.3 Submittal, approval and fees.** When required to submit a Fire Protection Plan or Vegetation Management Plan for any reason the responsible party shall prepare or cause to be prepared a Fire Protection Plan in accordance with the latest standards of the Berkeley Fire Department. The Fire Protection Plan shall be submitted to, reviewed and approved by the Berkeley Fire Department and shall be enforced and maintained by the responsible party or their designated agent. The Berkeley Fire Department may charge an appropriate fee for the review, approval and processing of the Fire Protection Plan in accordance with the hourly rate established by City Council resolution.

### **SECTION 4905 WILDFIRE PROTECTION BUILDING CONSTRUCTION**

**Section 4905.2 Construction methods and requirements within established limits.** Within the limits established by law, construction methods intended to mitigate wildfire exposure shall comply with the wildfire protection building construction requirements contained in the ~~California Building Standards Code~~ Berkeley Building Code and Berkeley Residential Code, including the following:

1. California Building Code, Chapter 7A. Chapter 7A of the Berkeley Building Code (B.B.C), Berkeley Municipal Code Section 19.28.030.
2. California Residential Code Section R337 of the Berkeley Residential Code (B.R.C.), Berkeley Municipal Code Section 19.29.050.
3. California Referenced Standards Code, Chapter 12-7A.

### **SECTION 4907 DEFENSIBLE SPACE**

## ATTACHMENT 1

Property owners are not required or authorized by this code to enter the properties of another person to implement the requirements of this Section.

### **Section 4907.3 Requirements.**

5. The Fire Code Official may require a property owner to perform hazardous vegetation and fuel management on their land to maintain defensible space up to 100 feet from structures located on adjacent properties.

### **Section 4907.4 Mitigations Required.**

A person who owns, leases, controls, operates, or maintains lands shall at all times maintain:

3. Zone 1: 5 to 30 feet from any structure:
  - a. Remove any privacy hedges or contiguous vegetation that will create a pathway for fire to reach a Structure.
  - b. Maintain 6 feet of vertical clearance between branches and all other parts of trees overhanging the roof or other portion of any Structure or attached deck.
  - c. Maintain any tree, shrub, or other plant adjacent to or overhanging any Structure or attached deck free of dead branches, dead limbs, or other Combustible Material.
  - d. Maintain the roof and roof gutters of any structure, and the surface of any attached deck free of leaves, needles, or other vegetative materials.
  - e. Maintain trees to remove Ladder Fuels so that foliage, twigs, or branches are greater than 8 feet above the ground or surface fuels.
  - f. Remove all branches within 10 feet of any chimney or stovepipe outlet.
  - g. Storage of firewood, lumber, or other Combustible Material is not permitted.
  - h. Keep low-growing shrubs, no higher than 6 feet in height, spaced apart or in small groupings of no more than 3 shrubs with a maximum aggregate diameter of 10 feet. Shrub groupings must be separated from other shrubs or shrub groupings by 15 feet such that no continuous path of vegetation is created. Where shrubs are located below or within a tree's drip line, the lowest tree branch shall be a minimum of three times the height of the understory shrubs or 10 feet, whichever is greater.
  - i. If there are multiple structures, such as a shed, hot tub, and playset, ensure these structures are spaced at least 10 feet apart. Have at most three (3) of these structures within 30 feet of a building or structure .

## ATTACHMENT 1

- j. Relocate exposed firewood piles outside of Zone 1 unless they are completely covered in a fire-resistant material.
4. Zone 2: 30 to 100 feet from any structure:
  - a. All exposed wood piles must have a minimum of ten feet (10 ft.) of clearance, down to bare mineral soil, in all directions.
  - b. Create horizontal and vertical spacing among shrubs and trees using the "Fuel Separation" method, the "Continuous Tree Canopy" method or a combination of both to achieve defensible space clearance requirements. Further guidance regarding these methods is contained in the State Board of Forestry and Fire Protection's, "General Guidelines for Creating Defensible Space, February 8, 2006," incorporated herein by reference.
5. For both Zones 1 and 2:
  - a. Remove vegetative and combustible material capable of transmitting fire to a structure as determined by the Fire Code Official.
  - b. Dead and dying woody surface fuels and aerial fuels shall be removed. Loose surface litter, normally consisting of fallen leaves or needles, twigs, bark, cones, and small branches, shall be permitted to a maximum depth of three inches (3 in.).
  - c. Cut annual grasses and forbs down to a maximum height of four inches (4 in.).
  - d. Non-irrigated brush is not permitted.
  - e. Vertical Spacing: Limb trees by removing hanging bark, debris and branches that are within six feet (6 ft.) of the ground, or three times the height of the understory vegetation, whichever is greater. Where a tree is not adaptable to limbing to the height described above, use a combination of limbing and/or modify and remove fuels adjacent to and underneath the tree to provide clearance above grade that is equivalent to three times the height of the tallest understory fuel.
  - f. Maintain horizontal spacing between shrubs:
    - i. Flat or mild slope (less than 20%): Two times the height of the shrub.
    - ii. Mild to moderate slope (20-40%): Four times the height of the shrub
    - iii. Moderate to steep slope (greater than 40%): Six times the height of the shrub
  - g. Maintain space between tree canopies:
    - i. Flat or mild slope (less than 20%): 10 feet.
    - ii. Mild to moderate slope (20-40%): 20 feet.
    - iii. Moderate to steep slope (greater than 40%): 30 feet.
  - h. New trees shall be planted and maintained so that the tree's drip line at maturity is a minimum of 10 feet from any structure or the canopy of other trees.

ATTACHMENT 1

**Section 4907.6 Specific requirements.** Effective January 1, 2026 the Grizzly Peak Mitigation Area and Panoramic Mitigation Area shall be subject to 4907.6 instead of 4907.4.

A person who owns, leases, controls, operates, or maintains lands shall at all times maintain:

1. Zone 0: 0 to 5 feet from any structure:
  - a. Maintain all areas within five (5) horizontal feet of any structure, outbuildings, attached deck or stairs, and the area under attached decks and stairs free of vegetative and non-vegetative combustible material.
    - i. This includes but is not limited to shrubs, vegetative ground cover, climbing vines, combustible boards, timbers, firewood, debris, synthetic lawn, wood mulch products, playsets, plastic trash and recycle cans, trellises, pergolas, shade coverings, planters, attached window boxes, privacy walls, boats, RVs, and other material that could be ignited by embers, radiant heat, or direct flame.
    - ii. Hardscape materials, such as gravel, pavers, concrete, and other noncombustible mulch materials are permitted.
    - iii. Exception: Plants in pots are allowable if they are in areas that are not directly beneath, above, or adjacent to a window or eave; are kept in an unaffixed, non-combustible pot or container that is no larger than 5-gallon capacity; and set apart by 1.5 times the height of the plant or 12 inches, whichever is greater, from the structure and each other. These plants shall be no greater than 18 inches in height. Dead or dying material on, around and under the plants shall be removed.
    - iv. Exception: Hot tubs may be installed within five (5) horizontal feet of a structure, provided they comply with all Zone 0 clearance requirements applicable to structures.
  - b. No trees are permitted in Zone 0.
  - c. Exception: If the bole of a tree is present within Zone 0, that tree is permitted if it is taller than the adjacent Building or Structure's roof ridgeline, does not have any dead and dying branches;
    - i. All live tree branches shall be kept:
      1. Ten feet (10') above the adjacent building or structure's roof ridgeline;
      2. Ten feet (10') away from chimneys and stovepipe outlets; and
      3. Five feet (5') away from the sides of any Building, Structure, attached deck or stairs, and hot tubs within five (5) feet of a structure.

## ATTACHMENT 1

- d. The roof and rain gutters of a Building or Structure shall be kept clear of leaves, needles, and vegetative material.
  - e. Existing fences that are directly attached to a Building or Structure shall have a five foot (5 ft) non-combustible span at the point of attachment. After the effective date of this regulation, no new sections of combustible fence (parallel or perpendicular) are permitted within 5 feet of a building or structure including an attached deck.
  - f. Outbuildings are not permitted in Zone 0, unless constructed according to the standards in Chapter 7A (commencing with Section 701A.1) of Part 2 of Title 24 of the California Code of Regulations. Outbuildings that meet these standards shall be considered part of the Building or Structure.
2. Zone 1: 5 to 30 Feet from any structure:
- a. Remove any privacy hedges or contiguous vegetation that will create a pathway for fire to reach a Structure.
  - b. Keep low-growing shrubs, no higher than 6 feet in height, spaced apart or in small groupings of no more than 3 shrubs with a maximum aggregate diameter of 10 feet. Shrub groupings must be separated from other shrubs or shrub groupings by 15 feet such that no continuous path of vegetation is created. Where shrubs are located below or within a tree's drip line, the lowest tree branch shall be a minimum of three times the height of the understory shrubs or 10 feet, whichever is greater.
  - c. If there are multiple structures, such as a shed, hot tub, and playset, ensure these structures are spaced at least 10 feet apart. Have at most three (3) of these structures within 30 feet of a building or structure.
  - d. Relocate exposed firewood piles outside of Zone 1 unless they are completely covered in a fire-resistant material.
3. Zone 2: 30 to 100 feet from any structure:
- a. All exposed wood piles must have a minimum of ten feet (10 ft.) of clearance, down to bare mineral soil, in all directions.
  - b. Create horizontal and vertical spacing among shrubs and trees using the "Fuel Separation" method, the "Continuous Tree Canopy" method or a combination of both to achieve defensible space clearance requirements. Further guidance regarding these methods is contained in the State Board of Forestry and Fire Protection's, "General Guidelines for Creating Defensible Space, February 8, 2006," incorporated herein by reference.
4. For both Zones 1 and 2:
- a. Remove vegetative and combustible material capable of transmitting fire to a structure as determined by the Fire Code Official.

## ATTACHMENT 1

- b. Dead and dying woody surface fuels and aerial fuels shall be removed. Loose surface litter, normally consisting of fallen leaves or needles, twigs, bark, cones, and small branches, shall be permitted to a maximum depth of three inches (3 in.).
- c. Cut annual grasses and forbs down to a maximum height of four inches (4 in.).
- d. Non-irrigated brush is not permitted.
- e. Vertical Spacing: Limb trees by removing hanging bark, debris and branches that are within six feet (6 ft.) of the ground, or three times the height of the understory vegetation, whichever is greater. Where a tree is not adaptable to limbing to the height described above, use a combination of limbing and/or modify and remove fuels adjacent to and underneath the tree to provide clearance above grade that is equivalent to three times the height of the tallest understory fuel.
- f. Maintain horizontal spacing between shrubs:
  - i. Flat or mild slope (less than 20%): Two times the height of the shrub.
  - ii. Mild to moderate slope (20-40%): Four times the height of the shrub
  - iii. Moderate to steep slope (greater than 40%): Six times the height of the shrub
- g. Maintain space between tree canopies:
  - i. Flat or mild slope (less than 20%): 10 feet.
  - ii. Mild to moderate slope (20-40%): 20 feet.
  - iii. Moderate to steep slope (greater than 40%): 30 feet.
- h. New trees shall be planted and maintained so that the tree's drip line at maturity is a minimum of 10 feet from any structure or the canopy of other trees.

**Section 4907.5 Corrective Actions.** The fire department is authorized to take enforcement actions as necessary to achieve compliance with Chapter 49 of this code, including but not limited those actions specified in Sections 104.13 ("Authority to arrest and issue citations"), 112.4 ("Violation penalties") and 114.7 ("Summary abatement") of this code, and as authorized by Berkeley Municipal Code, Chapter 1.24, "Abatement of Nuisances", and in accordance with all other applicable portions of the Berkeley Municipal Code. Corrective actions may also include the use of abatement warrants and the imposition of property liens as appropriate and in accordance with law.

### **Section 4912 SUPPRESSION AND CONTROL OF HAZARDS IN WILDLAND-URBAN INTERFACE AREAS**

**Section 4912.1 Permit.** The fire code official is authorized to stipulate conditions for permits. Permits shall not be issued when public safety would be at risk, as determined by the fire code official.

## ATTACHMENT 1

**Section 4912.2 Restricted Entry.** The fire code official shall determine and publicly announce when Wildland-Urban Interface areas shall be closed to entry and when such areas shall again be opened to entry. Entry on and occupation of Wildland-Urban Interface areas, except public roadways, inhabited areas or established trails and camp sites which have not been closed during such time when the Wildland-Urban Interface areas are closed to entry, is prohibited.

**Exceptions:**

1. Residents and owners of private property within Wildland-Urban Interface areas and their invitees and guests going to or being upon their lands;
2. Entry, in the course of duty, by peace officers, and other duly authorized public officers, members of a fire department and members of the United States Forest Service

**Section 4912.3 Trespassing on Posted Property**

**Section 4912.3.1 General.** When the fire code official determines that a specific area within a Wildland-Urban Interface Areas presents an exceptional and continuing fire danger because of the density of natural growth, difficulty of terrain, proximity to structures or accessibility to the public, such areas shall be closed until changed conditions warrant termination of closure. Such areas shall be posted as hereinafter provided.

**Section 4912.3.2 Signs.** Approved signs prohibiting entry by unauthorized persons and referring to this section shall be placed on every closed area.

**Section 4912.3.3 Trespassing.** Entering and remaining within areas closed and posted is prohibited.

**Exception:** Owners and occupiers of private or public property within closed and posted areas, their guests or invitees, and local, state and federal public officers and their authorized agents acting in the course of duty.

**Section 4912.4 Smoking.** Lighting, igniting or otherwise setting fire to or smoking tobacco, cigarettes, pipes or cigars in Wildland-Urban Interface areas are prohibited.

**Exception:** Places of habitation or within the boundaries of established smoking areas or campsites as designated by the fire code official.

**Section 4912.5 Spark Arresters.** Chimneys used in conjunction with fireplaces, barbecues, incinerators or heating appliances in which solid or liquid fuel is used, upon buildings, structures or premises located within Wildland-Urban Interface areas shall be provided with a spark arrester. See Berkeley Building Code Section 705A.5 for specifications.

**Section 4912.6 Tracer Bullets, Tracer Charges, Rockets and Model Aircraft.** Tracer bullets and tracer charges shall not be possessed, fired or caused to be fired into or across Wildland-Urban Interface areas. Rockets, model planes, gliders and balloons powered with an engine, propellant or other feature liable to start or cause fire shall not be fired or projected into or across Wildland-Urban Interface Areas.

## ATTACHMENT 1

**Section 4912.7 Explosives and Blasting.** Explosives shall not be possessed, kept, stored, sold, offered for sale, given away, used, discharged, transported or disposed of within Wildland-Urban Interface areas except by permit from the fire code official.

**Section 4912.8 Fireworks.** Fireworks shall not be used or possessed in Wildland-Urban Interface areas. The fire code official is authorized to seize, take, remove or cause to be removed fireworks in violation of this section.

Exception: Fireworks allowed by the fire code official under permit when not prohibited by applicable local or state laws, ordinances and regulations.

**Section 4912.9 Apiaries.** Lighted and smoldering material shall not be used in connection with smoking bees in or upon Wildland-Urban Interface areas except by permit from the fire code official.

**Section 4912.10 Open-Flame Devices.** See Berkeley Fire Code Sections 308.1.6 Open Flame Devices and 308.1.6.1 Signals and Markers.

**Section 4912.11 Outdoor Fires.** Outdoor fires shall not be built, ignited or maintained in or upon Wildland-Urban Interface areas, except by permit from the fire code official.

**Exception:** Outdoor fires within habited premises or designated campsites, where such fires are built in a permanent barbecue, portable barbecue, outdoor fireplace, incinerator or grill and are a minimum of 30 feet (9144 mm) from a grass-, grain-, brush or forest-covered area.

Permits shall incorporate such terms and conditions, which will reasonably safeguard public safety and property.

Outdoor fires shall be prohibited in or upon Wildland-Urban Interface areas under the following conditions:

1. When red flag conditions exist as defined by the National Oceanic and Atmospheric Administration,
2. When a person age 17 or over is not present at all times to watch and tend such fire, or
3. When public announcement is made that open burning is prohibited. Permanent barbecues, portable barbecues, outdoor fireplaces, fire pits or grills shall not be used if solid or liquid fueled.

**Section 4912.12 Incinerators and Fireplaces.** Incinerators, outdoor fireplaces, fire pits, permanent barbecues and grills shall not be built, installed or maintained in Wildland-Urban Interface areas without prior approval of the fire code official. Existing incinerators, outdoor fireplaces, fire pits, permanent barbecues and grills shall be maintained in good repair and in a safe condition at all times. Openings in such appliances shall be provided with an approved spark arrester, screen or door.

**Exception:** When approved, unprotected openings in barbecues and grills necessary for proper functioning shall be allowed.

**Section 4912.13 Dumping.** Garbage, cans, bottles, papers, ashes, refuse, trash, rubbish or combustible waste material shall **not** be placed, deposited or dumped in or upon Wildland-Urban Interface areas or in, upon or along trails, roadways or highways in Wildland-Urban Interface areas.

## ATTACHMENT 1

**Exception:** Approved public and private dumping areas.

**Section 4912.14 Disposal of Ashes.** Ashes and coals shall not be placed, deposited or dumped in or upon Wildland-Urban Interface areas.

**Exceptions:**

1. In the hearth of an established fire pit, camp stove or fireplace;
2. In a noncombustible container with a tight-fitting lid, which is kept or maintained in a safe location not less than 10 feet (3048mm) from combustible vegetation or structures;
3. Where such ashes or coals are buried and covered with 1 foot (304.8mm) of mineral earth not less than 25 feet (7620 mm) from combustible vegetation or structures.

**Section 4912.15 Use of Fire Roads and Firebreaks.** Motorcycles, motor scooters and motor vehicles shall not be driven or parked upon, and trespassing is prohibited upon, fire roads or firebreaks beyond the point where travel is restricted by a cable, gate or sign, without the permission of the property owner(s). Vehicles shall not be parked in a manner, which obstructs the entrance to a fire road or firebreak.

**Exception:** Public officers acting within their scope of duty. Radio and television aerials, guy wires thereto, and other obstructions shall not be installed or maintained on fire roads or fire breaks unless located 16 feet (4877 mm) or more above such fire road or firebreak.

**Section 4912.16 Use of Motorcycles, Motor Scooters and Motor Vehicles.**

Motorcycles, motor scooters and motor vehicles shall not be operated within Wildland-Urban Interface areas, without a permit by the fire code official, except upon clearly established public or private roads. Permission from the property owner(s) shall be presented when requesting a permit.

**Section 4912.17 Tampering with Fire Department Locks, Barricades and Signs.**

Locks, barricades, seals, cables, signs and markers installed within Wildland-Urban Interface areas, by or under the control of the fire code official, shall not be tampered with, mutilated, destroyed or removed. Gates, doors, barriers and locks installed by or under the control of the fire code official shall not be unlocked.

**Section 4912.18 Liability for Damage.** The expenses of fighting fires and securing emergencies, which result from a violation of this code, Chapter 6.15.030 of the Berkeley Municipal Code (“Unauthorized barbecues and fire on public property”), Sections 13000-13011 of the California Health and Safety Code, Sections 4421-4446 of the California Public Resources Code, or Sections 451, 451.5, 452 or 455 of the California Penal Code is a charge against the person(s) whose violation of the code section(s) caused the fire. Damages caused by such fires shall constitute a debt of such person(s) and shall be collectable by the fire code official in accordance with Section 107.7 of the BMC.

**Chapter 50 of the California Fire Code is adopted in its entirety subject to the modifications thereto which are set forth below.**

### CHAPTER 50 – HAZARDOUS MATERIALS – GENERAL PROVISIONS

## **SECTION 5001 GENERAL**

**Section 5001.7 Hazardous materials transportation restrictions.** No vehicle containing hazardous materials, including a hazardous materials transportation tank truck, trailer, semi-trailer or tank wagon containing flammable or combustible liquids, hazardous chemicals, liquefied petroleum gases, poisonous gases, or cryogenic fluids, shall be operated on any city street without a permit from the fire code official. A map showing the proposed route of the vehicle shall accompany applications for such permits. If a permit is granted, the map shall be carried at all times in the vehicle and the vehicle shall not deviate from the approved route as shown on the map. Such a permit may contain conditions, including restrictions on the hours within which certain routes may be used and limitations on the size of the vehicle allowed to travel the approved route. No route shall be approved that includes passage over or adjacent to subway entry or vent structures, through the Northbrae Tunnel, in any area designated an environmental safety residential district by the City of Berkeley's Zoning Ordinance, or in an area which may be designated as a hazardous fire area. Departure from the approved route, travel outside the permitted hours, and violation of any vehicle size limitation imposed, or failure to carry a map showing route approval shall constitute a violation of this Code. The transportation of extremely hazardous materials may, in the discretion of the fire code official, require both a permit and accompaniment by a Fire Department or Police Department convoy. The following streets contain purge chamber openings which lead directly into the subway section of the Bay Area Rapid Transit (BART) System in Berkeley and their use by tank vehicles or trailers for transportation or delivery of flammable or combustible liquids, hazardous chemicals, liquefied petroleum gases, poisonous gases, or cryogenic fluids is prohibited and a violation of this Code:

- a. On Addison Street between Martin Luther King Jr. Way and Oxford Street;
- b. On Shattuck Avenue between University Avenue and Dwight Way;
- c. On Virginia Street between Franklin and Sacramento Streets;
- d. On Sacramento Street between Virginia Street and Hearst Avenue;
- e. On Hearst Avenue between McGee Avenue and Milvia Street;
- f. On Adeline Street between Ward and Stuart Streets; and
- g. On Adeline Street between Ashby Avenue and Woolsey Street

## **CHAPTER 56 – EXPLOSIVES AND FIREWORKS**

### **SECTION 5601 GENERAL**

**5601.1.3 Fireworks.** The possession, manufacture, storage, sale, handling and use of fireworks, including fireworks which are classified as Safe and Sane fireworks by the California State Fire Marshal's Office, are prohibited within the City of Berkeley.

#### **Exceptions:**

- ~~1. Storage and handling of fireworks as allowed in Section 5604.~~
- ~~2. Manufacture, assembly and testing of fireworks as allowed in Section 5605 and Health and Safety Code Division 11.~~

## ATTACHMENT 1

31. The use of fireworks for fireworks displays, pyrotechnics before a proximate audience and pyrotechnic special effects in motion pictures, television, theatrical or group entertainment productions as allowed in Title 19, Division 1, Chapter 6 Fireworks reprinted in Section 5608 and Health and Safety Code Division 11 when stored, transported, handled and used under the required fire department permit(s) and in accordance will all applicable requirements of Chapter 56.
42. The possession, storage, sale, handling and use of specific types of Division 1.4G fireworks where allowed by applicable laws, ordinances and regulations, provided that such fireworks and facilities comply with NFPA 1124, CPSC 16 CFR Parts 1500 and 1507, and DOTn 49 CFR Parts 100– 185, as applicable for consumer fireworks *and Health and Safety Code Division 11.*

**Section 5604.1 General.** The storage and handling of explosives within City of Berkeley limits is prohibited. Storage of explosives and explosive materials, small arms ammunition, small arms primers, propellant-actuated cartridges and smokeless propellants in magazines shall comply with the provisions of this section

**Exception:** Where expressly permitted by applicable laws, ordinances or regulations provided such storage and handling of explosives and explosive materials, small arms ammunition, small arms primers, propellant-actuated cartridges and smokeless propellants in magazines is conducted in accordance with Section 5604 and all applicable provisions of Chapter 56.

## **CHAPTER 57 – FLAMMABLE AND COMBUSTABLE LIQUIDS**

### **SECTION 5701 GENERAL**

**Section 5701.4.1 Transfer of flammable and combustible liquids.** Transfer to or from containers or mobile tanks, above ground or underground tanks of flammable and combustible liquids shall not be made from or on the street or public way except by written approval by the fire code official.

#### **Exceptions:**

1. Transfer of not more than 5 gallons flammable or combustible liquids using a listed or approved portable fuel container of not more than 5 gallons capacity.
2. The transfer of combustible liquids to or from approved, fixed mechanical or electrical system equipment such as a Standby or Emergency electric power generator when the transfer is completed by a commercial fuel vendor using approved dispensing equipment via a previously approved, fixed tank filling port which met code requirements at the time of installation.

### **SECTION 5704 STORAGE**

**Section 5704.2.11.1.1 Restrictions on underground storage tanks.** The storage of flammable and combustible liquids in underground tanks is prohibited in all areas zoned solely for residential occupancies, closely built commercial properties, and any other area deemed unsafe by the fire code official.

**Section 5704.2.13.1.4 Tanks abandoned in place.** Tanks may be abandoned only under permit and following City of Berkeley Fire Department procedures. The owner shall demonstrate to the satisfaction of the City of Berkeley Toxics Management Division (TMD) that no unauthorized release has occurred. If the soil is contaminated, mitigation must be completed to the satisfaction of the Toxics Management Division (TMD). A notice shall be placed in the deed to the property. This notice shall describe the precise location of the closed underground storage tank, the hazardous substances that it contained, and the closure method. Tanks abandoned in place shall be as follows:

1. Flammable and combustible liquids shall be removed from the tank and connected piping.
2. The suction, inlet, gauge, vapor return and vapor lines shall be disconnected.
3. The tank shall be filled completely with an approved inert solid material.
4. Remaining underground piping shall be capped or plugged.
5. A record of tank size, location and date of abandonment shall be retained.
6. All exterior above-grade fill piping shall be permanently removed when tanks are abandoned or removed.

**Section 5704.2.14 Removal and disposal of tanks.** Removal and disposal of tanks shall comply with Sections 5704.2.14.1 and 5704.2.14.2. Removal of all tanks shall be authorized under a fire permit, abiding by City of Berkeley Fire Department procedures. The applicant shall submit the following:

1. **A site plan showing the location of the tanks.**
2. **A detailed description of the scope of work.**
3. **A site safety plan.**
4. **A vicinity map to the closest hospital, in an event of an emergency.**
5. **Proof of workers compensation insurance.**

The owner shall demonstrate to the satisfaction of the City of Berkeley Toxics Division that no unauthorized release has occurred. If the soil is contaminated, mitigation must be completed to the satisfaction of the Toxics Division or the California Water Board.

## **CHAPTER 61 – LIQUIFIED PETROLEUM GASES**

### **SECTION 6104 LOCATION OF LP-GAS CONTAINERS**

**Section 6104.1.1 Restrictions on storage of LP-gas containers.** It shall be unlawful to store any liquefied petroleum gas cylinder with a capacity greater than 2-1/2 lbs. water capacity or a portable tank within any structure or building with an occupancy classification of A, R-1, R-2 or R-4, unless specifically authorized by this Code.

## **APPENDIX B – FIRE FLOW REQUIREMENTS FOR BUILDINGS**

ATTACHMENT 1

**Section B105.2 (Appendix B), Table B105.2, “Required Fire-Flow for Buildings Other Than One- And Two-Family Dwellings, Group R-3 And R-4 Buildings And Townhouses” [Amended Table]**

**TABLE B105.2  
REQUIRED FIRE-FLOW FOR BUILDINGS  
OTHER THAN ONE- AND  
TWO-FAMILY DWELLINGS, GROUP R-3 AND R-4  
BUILDINGS AND TOWNHOUSES**

| <b>AUTOMATIC SPRINKLER SYSTEM<br/>(Design Standard)</b> | <b>MINIMUM FIRE-FLOW<br/>(gallons per minute)</b>  | <b>FLOW DURATION<br/>(hours)</b>                      |
|---------------------------------------------------------|----------------------------------------------------|-------------------------------------------------------|
| No automatic sprinkler system                           | Value in Table B105.1(2)                           | Duration in Table B105.1(2)                           |
| Section 903.3.1.1 of the <i>California Fire Code</i>    | 2550% of the value in Table B105.1(2) <sup>a</sup> | Duration in Table BI 05.1(2) at the reduced flow rate |
| Section 903.3.1.2 of the <i>California Fire Code</i>    | 2550% of the value in Table B105.1(2) <sup>b</sup> | Duration in Table BI05.1(2) at the reduced flow rate  |

For SI: 1 gallon per minute= 3.785 Lim.

- a. The reduced fire-flow shall be not less than 1,000 gallons per minute.
- b. The reduced fire-flow shall be not less than 1,500 gallons per minute.

**APPENDIX L – REQUIREMENTS FOR FIRE FIGHTER AIR REPLENISHMENT SYSTEMS**

**SECTION L104 DESIGN AND INSTALLATION**

**Section L104.5.1 Stored pressure air supply.** A stored pressure air supply shall be designed based on Appendix Chapter F of the California Plumbing Code Chapter 24 of NFPA 1904 except that the provisions applicable only to mobile apparatus or not applicable to system design shall not apply. A stored pressure air supply shall store not less than 5,000 Standard Cubic Feet (SCF) of air or be capable of refilling not less than 50 empty breathing air cylinders of a size and pressure used by the fire department, whichever is greater.

**Section 19.48.030 Validity.** Should any section, paragraph, sentence or word of this Chapter or of the Code or Standards be declared invalid, all other portions of this Chapter shall remain in effect.

Section 2. Copies of this Ordinance shall be posted for two days prior to adoption in the display case located near the walkway in front of the Maudelle Shirek Building, 2134 Martin Luther King Jr. Way. Within 15 days of adoption, copies of this Ordinance shall be filed at each branch of the Berkeley Public Library and the title shall be published in a newspaper of general circulation.

Chapter 49 of the California Fire Code is adopted in its entirety subject to the modifications thereto which are set forth below.

## CHAPTER 49 – REQUIREMENTS FOR WILDLAND-URBAN INTERFACE FIRE AREAS

### SECTION 4902 DEFINITIONS

**Section 4902.1 General.** *For the purpose of this chapter, certain terms are defined as follows:*

**BOLE OF A TREE.** A bole of a tree is its main trunk, specifically the part extending from the roots up to the first branches and canopy.

**FIRE PROTECTION PLAN.** A document prepared for a specific premises, project or development, either existing or proposed for a Wildland-Urban Interface (WUI) area. It describes ways to minimize and mitigate potential for loss from wildfire exposure.

**FIRE HAZARD SEVERITY ZONES.** Geographical areas designated pursuant to California Public Resources Codes, Sections 4201 through 4204 and classified as Very High, High, or Moderate in State Responsibility Area or as Local Agency Very High Fire Hazard Severity Zones designated pursuant to California Government Code, Sections 51175 through 51189, and locally amended and adopted under ordinance 7958-N.S.

The California Code of Regulations, Title 14, Section 1280 entitles the maps of these geographical areas as "Maps of the Fire Hazard Severity Zones in the State Responsibility Area of California."

**FLATLANDS MITIGATION AREA** encompasses the entire City of Berkeley except for areas in the Hills Mitigation Area, Panoramic Mitigation Area and Grizzly Peak Mitigation Area.

**FORBS.** Forbs are herbaceous, non-woody flowering plants that are not grasses, sedges, or rushes

**GRIZZLY PEAK MITIGATION AREA** encompasses those areas of the city from parcels addressed on the west side of Grizzly Peak Boulevard to the eastern city boundary. Homes addressed on, or with a structural frontage on either side of Grizzly Peak Boulevard are included in the area. The Grizzly Peak Mitigation Area is designated as a Very-High Fire Hazard Severity Zone.

**HIGH FIRE HAZARD SEVERITY ZONE** encompasses those areas designated as High Fire Hazard Severity Zones, adopted and locally amended pursuant to California Government Code, Sections 51175 through 51189.

This area includes areas of the City east / north east of the line formed by these roads. Homes addressed on, or with a structural frontage on either side of these road segments are included in the zone:

## ATTACHMENT 1

- a. The Arlington Avenue from the Kensington Border to Marin Avenue
- b. Fountain Walk from Marin Avenue to Sutter Street
- c. Sutter Street from the southern portal of the Northbrae Tunnel to Eunice Street.
- d. Eunice Street from Sutter Street to Spruce Street
- e. Spruce Street from Eunice Street to Hearst Avenue
- f. Hearst Ave from Spruce Street to Gayley Road
- g. Gayley Road from Hearst Avenue to Piedmont Ave
- h. Piedmont Avenue from Gayley Road to Bancroft Way.
- i. Piedmont Crescent from Piedmont Ave to Warring Street.
- j. Warring Street from Dwight Way to Derby Street.
- k. Derby Street from Warring Street to Belrose Avenue.
- l. Belrose Avenue from Derby Street to Garber Street
- m. Claremont Boulevard from Garber Street to Claremont Avenue
- n. Claremont Avenue from Claremont Boulevard to the Oakland Border

**IGNITION-RESISTANT MATERIAL.** A type of building material that complies with the requirements in Section 704A.2 in the California-Berkeley Building Code.

**LOCAL RESPONSIBILITY AREAS (LRA).** Areas of the state in which the financial responsibility of preventing and suppressing fires is the primary responsibility of a city, county, city and county, or district.

**PANORAMIC MITIGATION AREA (ZONE 3)** encompasses those areas of the city bounded by the line formed by these roads and by the City Limit to the east. The entirety of the Panoramic Mitigation Area is designated as a Very High Fire Hazard Severity Zone. Homes addressed on, or with a structural frontage on either side of these road segments are included in the zone:

- a. Centennial Drive from the Oakland border to Stadium Rim Way
- b. Stadium Rim Way from Centennial Drive to Canyon Road
- c. Canyon Road from Stadium Rim Way to Bancroft Way
- d. Bancroft Way from Canyon Road to Bancroft Steps
- e. Bancroft Steps from Bancroft Way to Bancroft Way
- f. Bancroft Way from Bancroft Steps to Piedmont Avenue
- g. Piedmont Avenue from Bancroft Way to Dwight Way
- h. Dwight Way East from Piedmont Avenue to the eastern terminus of Dwight Way.

## ATTACHMENT 1

- i. A straight line extending East from the terminus of Dwight Way to the Oakland border.

**STATE RESPONSIBILITY AREA (SRA).** Lands that are classified by the Board of Forestry pursuant to Public Resources Code Section 4125 where the financial responsibility of preventing and suppressing wildfires is primarily the responsibility of the state.

**VERY HIGH FIRE HAZARD SEVERITY ZONE.** Encompasses those areas identified by CalFIRE as Very High Fire Hazard Severity Zones pursuant to California Government Code 51175-51189 and locally amended and adopted under ordinance 7958-N.S.

**WILDFIRE.** Any uncontrolled fire spreading through vegetative fuels that threatens to destroy life, property, or resources as defined in Public Resources Code, Sections 4103 and 4104.

**WILDFIRE EXPOSURE.** One or a combination of radiant heat, convective heat, direct flame contact and burning embers being projected by vegetation fire to a structure and its immediate environment.

**WILDLAND-URBAN INTERFACE (WUI).** A geographical area identified by the state as a "Fire Hazard Severity Zone" in accordance with the Public Resources Code, Sections 4201 through 4204, and Government Code, Sections 51175 through 51189, or other areas designated by the enforcing agency to be at a significant risk from wildfires.

### **SECTION 4903 PLANS**

**Section 4903.3 Submittal, approval and fees.** When required to submit a Fire Protection Plan or Vegetation Management Plan for any reason the responsible party shall prepare or cause to be prepared a Fire Protection Plan in accordance with the latest standards of the Berkeley Fire Department. The Fire Protection Plan shall be submitted to, reviewed and approved by the Berkeley Fire Department and shall be enforced and maintained by the responsible party or their designated agent. The Berkeley Fire Department may charge an appropriate fee for the review, approval and processing of the Fire Protection Plan in accordance with the hourly rate established by City Council resolution.

### **SECTION 4905 WILDFIRE PROTECTION BUILDING CONSTRUCTION**

**Section 4905.2 Construction methods and requirements within established limits.** Within the limits established by law, construction methods intended to mitigate wildfire exposure shall comply with the wildfire protection building construction requirements contained in the ~~California Building Standards Code~~ Berkeley Building Code and Berkeley Residential Code, including the following:

1. California Building Code, Chapter 7A. Chapter 7A of the Berkeley Building Code (B.B.C), Berkeley Municipal Code Section 19.28.030.
2. California Residential Code Section R337 of the Berkeley Residential Code (B.R.C.), Berkeley Municipal Code Section 19.29.050.
3. California Referenced Standards Code, Chapter 12-7A.

## SECTION 4907 DEFENSIBLE SPACE

Property owners are not required or authorized by this code to enter the properties of another person to implement the requirements of this Section.

### Section 4907.3 Adjacent Property Requirements.

The Fire Code Official may require a property owner to perform hazardous vegetation and fuel management on their land to maintain defensible space up to 100 feet from structures located on adjacent properties.

### Section 4907.4 Mitigations Required.

Within the locally adopted Very High Fire Hazard Severity Zone a person who owns, leases, controls, operates, or maintains lands shall at all times:

1. Remove all branches within 10 feet of any chimney or stovepipe outlet.
2. Maintain the roof and roof gutters of any structure, and the surface of any attached deck, porch, landing, or stairs free of leaves, needles, or other deposited vegetative materials.
3. Maintain 6 feet of vertical clearance between branches and all other parts of trees or other vegetation overhanging the roof or other portion of any Structure or attached deck.
4. Zone 0: 0-5 feet from any structure: The requirements of 4907.4.5 below apply to this zone.
5. Zone 1: 5 to 30 feet from any structure:
  - a. Remove contiguous vegetation without adequate fuel separation to prevent spread to the structure.
  - b. Maintain any tree, shrub, or other plant adjacent to or overhanging any Structure or attached deck free of dead or dying wood.
  - c. Maintain trees to remove Ladder Fuels so that foliage, twigs, or branches are greater than 6' feet above the ground or surface fuels.
  - d. Where shrubs or small trees are located below or within a tree's drip line, the lowest tree branch shall be a minimum of three times the height of the understory shrubs or 6 feet, whichever is greater.
  - e. New structures on the same property, such as a shed, hot tub, and playset, ensure these structures are spaced at least 10 feet apart. Have at most three (3) of these structures within 30 feet of a building or structure.
    - i. Existing moveable structures shall comply with the above.
  - f. Relocate storage of exposed firewood piles or lumber unless they are completely covered in a fire-resistant covering approved by the State Fire Marshal's Building Material Listing Service.



ATTACHMENT 1

6. Zone 2: 30 to 100 feet from any structure:
  - a. All exposed wood piles must have a minimum of ten feet (10 ft.) of clearance, down to bare mineral soil, in all directions.
7. For both Zones 1 and 2:
  - a. Remove vegetative and combustible material capable of transmitting fire to a structure as determined by the Fire Code Official.
  - b. Dead and dying woody surface fuels and aerial fuels shall be removed. Loose surface litter, normally consisting of fallen leaves or needles, twigs, bark, cones, and small branches, shall be permitted to a maximum depth of three inches (3 in.).
  - c. Cut annual grasses and annual forbs to a maximum height of four inches (4 in.) prior to, or upon reaching the senescent or ripening phase when the preponderance of vegetative material is cured or dead.
  - d. Vertical Spacing: Limb trees by removing hanging bark, debris and branches that are within six feet (6 ft.) of the ground.
  - e. Create horizontal and vertical spacing among shrubs and trees using the "Fuel Separation" method, the "Continuous Tree Canopy" method or a combination of both to achieve defensible space clearance requirements. Further guidance regarding these methods is contained in the State Board of Forestry and Fire Protection's, "General Guidelines for Creating Defensible Space, February 8, 2006," incorporated herein by reference.
  - f. Maintain horizontal spacing between shrubs. Consistent with fuel management objectives, steps should be taken to minimize erosion, soil disturbance, and the spread of flammable, non-native grasses and weeds.
    - i. Flat or mild slope (less than 20%): Two times the height of the shrub.
    - ii. Mild to moderate slope (20-40%): Four times the height of the shrub
    - iii. Moderate to steep slope (greater than 40%): Six times the height of the shrub
    - iv. Shrubs maintained as trees shall comply with requirements for trees, and not this section.



ATTACHMENT 1

- g. New trees shall be planted and maintained so that the tree's drip line at maturity is a minimum of 10 feet from any structure or the canopy of other trees.

**Section 4907.6 Specific requirements.** Effective January 1, 2026 the Grizzly Peak Mitigation Area and Panoramic Mitigation Area shall be subject to 4907.6 in addition to 4907.4.

A person who owns, leases, controls, operates, or maintains lands shall at all times:

1. Zone 0: 0 to 5 feet from any structure:

- a. Maintain all areas within five (5) horizontal feet of any structure, outbuildings, attached deck or stairs, and the area under attached decks and stairs free of vegetative and non-vegetative combustible material.
  - i. This includes but is not limited to shrubs, vegetative ground cover, climbing vines, combustible boards, timbers, firewood, debris, synthetic lawn, wood mulch products, playsets, plastic trash and recycle cans, trellises, pergolas, shade coverings, planters, attached window boxes, privacy walls, boats, RVs, and other material that could be ignited by embers, radiant heat, or direct flame.
  - ii. Hardscape materials, such as gravel, pavers, concrete, and other noncombustible materials, including bare mineral soil, are permitted.
  - iii. Exception: Plants in pots are allowable if they are in areas that are not directly beneath, above, or adjacent to a window or eave; are kept in an unaffixed, non-combustible pot or container that is no larger than 5-gallon capacity; and set apart by 1.5 times the height of the plant or 12 inches, whichever is greater, from the structure and each other. These plants shall be no greater than 18 inches in height. Dead or dying material on, around and under the plants shall be removed.
  - iv. Exception: Hot tubs may be installed within five (5) horizontal feet of a structure, provided they comply with all Zone 0 clearance requirements applicable to structures.
- b. Trees: Existing single specimens of trees are permitted in Zone Zero if:
  - i. Maintained free of dead material.
  - ii. The canopy is maintained to create:
    - 1. Six feet (6') above the adjacent building or structure's roof
    - 2. Ten feet (10') away from chimneys and stovepipe outlets; and
    - 3. Five feet (5') of horizontal clearance from the sides of any Building, Structure, attached deck, porch, landing or stairs, and hot tubs within five (5) feet of a structure.

ATTACHMENT 1

- 4. 6' of vertical clearance above attached decks, attached, landing or stairs, and hot tubs within 5' of a structure.
- c. The roof and rain gutters of a Building or Structure shall be kept clear of leaves, needles, and vegetative material.
- d. Existing fences that are directly attached to a Building or Structure shall have a five foot (5 ft) non-combustible span at the point of attachment. After the effective date of this regulation, no new or replacement sections of combustible fence (parallel or perpendicular) are permitted within 5 feet of a building or structure including an attached deck.
- e. Outbuildings are not permitted in Zone 0, unless constructed according to the standards in Chapter 7A (commencing with Section 701A.1) of Part 2 of Title 24 of the California Code of Regulations. Outbuildings that meet these standards shall be considered part of the Building or Structure for the purpose of measuring Zone 0.

DRAFT

## Chapter 1.28

### ADMINISTRATIVE CITATIONS

Sections:

- 1.28.010 Purpose and applicability.**
- 1.28.020 Enforcement officer--Defined--Authority.**
- 1.28.030 Administrative citation.**
- 1.28.040 Amount of fines.**
- 1.28.050 Payment of the fine.**
- 1.28.060 Hearing request.**
- 1.28.070 Advance deposit hardship waiver.**
- 1.28.080 Hearing officer.**
- 1.28.090 Hearing procedures.**
- 1.28.100 Hearing officer's decision.**
- 1.28.110 Late payment charges.**
- 1.28.120 Recovery of administrative citation fines and costs.**
- 1.28.130 Right to judicial review.**
- 1.28.140 Notices.**

#### **1.28.010 Purpose and applicability.**

- A. This chapter provides for administrative citations as provided in Government Code Section [53069.4](#).
- B. The remedies provided by this chapter are in addition to all other legal remedies, criminal or civil, which may be pursued by the City to address any violation of this code.
- C. Use of this chapter shall be at the sole discretion of the City. (Ord. 6710-NS § 2, 2002)

#### **1.28.020 Enforcement officer--Defined--Authority.**

- A. For purposes of this chapter, "enforcement officer" shall mean any City employee or agent of the City with the authority to enforce any provision of this code.

B. Enforcement officers shall have authority to issue administrative citations pursuant to this chapter. (Ord. 6710-NS § 2, 2002)

### **1.28.030 Administrative citation.**

A. Whenever an enforcement officer charged with the enforcement of any provision of this code determines that a violation of that provision has occurred, the enforcement officer may issue an administrative citation to any person responsible for the violation.

B. Each administrative citation shall contain the following information:

1. The date of the violation;
2. The address or a definite description of the location where the violation occurred;
3. The section of this code violated and a description of the violation;
4. The amount of the fine for the code violation;
5. A description of the fine payment process, including a description of the time within which and the place to which the fine shall be paid;
6. An order prohibiting the continuation or repeated occurrence of the code violation described in the administrative citation;
7. An order to correct the code violation described in the administrative citation if said violation is correctable as described in Section [1.20.030](#);
8. A description of the administrative citation review process, including the time within which the administrative citation may be contested and the place from which a request for hearing form to contest the administrative citation may be obtained and an advance deposit waiver; and
9. The name and signature of the citing enforcement officer.

C. In addition to the administrative citation and penalty authorized by this chapter, an order to correct a violation under subdivision B.7 of this section may be enforced as set forth in the chapter applicable to that violation.

D.

1. In cases involving a continuing violation pertaining to building, plumbing, electrical, or other similar structural or zoning issues that do not create an immediate danger to health or safety, a reasonable time not to exceed six months shall be provided to remedy or correct the violation prior to imposition of fines or penalties. In determining what is a reasonable time, the City may consider the estimate of local professionals including licensed contractors. In the case of such violations, the time within which the violation must be corrected in order to avoid a fine shall also be specified on the administrative citation.
2. In cases where a citation is based solely on a person's failure to have obtained a permit or license from the City other than for a regulated business activity, and the person has not previously been cited for the same violation, the citation shall specify a reasonable time to obtain the permit or license, and the penalty shall not exceed \$50.00 if the cited person shows proof of correction to the enforcing officer within the time established for obtaining the permit or license. This subdivision shall apply to violations of Title [23](#) only at the option of the enforcement officer. (Ord. 6836-NS § 1 (part), 2005; Ord. 6710-NS § 2, 2002)

#### **1.28.040 Amount of fines.**

- A. The amounts of the fines for code violations imposed pursuant to this chapter shall be set forth in the schedule of fines established by resolution of the City Council.
- B. The schedule of fines shall specify any increased fines for repeat violations of the same code provision by the same person within 36 months from the date of an administrative citation.
- C. The schedule of fines shall specify the amount of any late payment charges imposed for the payment of a fine after its due date. (Ord. 6710-NS § 2, 2002)

#### **1.28.050 Payment of the fine.**

- A. The fine shall be paid to the City within 30 days from the date of the administrative citation.
- B. Payment of a fine under this chapter shall not excuse or discharge any continuation or repeated occurrence of the code violation that is the subject of the administrative citation. (Ord. 6710-NS § 2, 2002)

### **1.28.060 Hearing request.**

A. Any recipient of an administrative citation may contest the existence of a violation of the code, that they are the responsible party or any order issued under Section [1.28.030.B](#) by completing a request for hearing form and returning it to the City within 21 days from the date of the administrative citation, together with an advance deposit of the fine or notice that a request for an advance deposit hardship waiver has been filed pursuant to Section [1.28.070](#).

B. The person requesting the hearing shall be notified of the time and place set for the hearing at least ten days prior to the date of the hearing.

C. If the enforcement officer submits an additional written report concerning the administrative citation to the hearing officer for consideration at the hearing, a copy of this report also shall be served on the person requesting the hearing at least five days prior to the date of the hearing. (Ord. 6836-NS § 2 (part), 2005; Ord. 6710-NS § 2, 2002)

### **1.28.070 Advance deposit hardship waiver.**

A. Any person who intends to request a hearing under Section [1.28.060](#) and who is financially unable to make the advance deposit of the fine as required in Section may file a request for an advance deposit hardship waiver.

B. The request shall be filed with the City on an advance deposit hardship waiver application form within ten days of the date of the administrative citation.

C. The requirement of depositing the full amount of the fine as described in Section [1.28.060.A](#) shall be stayed unless or until the City makes a determination not to grant the advance deposit hardship waiver.

D. The City may grant the advance deposit hardship waiver only if the cited party submits a sworn declaration, together with any supporting documents or materials, which demonstrates their financial inability to deposit with the City the full amount of the fine in advance of the hearing.

E. If the City determines not to issue an advance deposit hardship waiver, the cited party shall remit the deposit to the City within ten days of the date of that decision or 30 days from the date of the administrative citation, whichever is later.

F. The City shall issue a written determination of its reasons for granting or denying an advance deposit hardship waiver. This written determination shall be final.

G. The written determination shall be served upon the applicant for the advance deposit hardship waiver by first class mail. (Ord. 6710-NS § 2, 2002)

### **1.28.080 Hearing officer.**

The City Manager shall designate the hearing officer for administrative citation hearings. (Ord. 6710-NS § 2, 2002)

### **1.28.090 Hearing procedures.**

A. No hearing to contest an administrative citation before a hearing officer shall be held unless the fine has been deposited in advance in accordance with Section [1.28.060](#) or an advance deposit hardship waiver has been granted in accordance with Section [1.28.070](#).

B. A hearing before the hearing officer shall be set for a date that is not less than 15 days and not more than 30 days from the date that the request for hearing is filed in accordance with the provisions of this chapter.

C. At the hearing, the party contesting the administrative citation shall be given the opportunity to testify and to present evidence concerning the administrative citation.

D. The failure of any recipient of an administrative citation to appear at the administrative citation hearing shall constitute a forfeiture of the fine, a failure to exhaust their administrative remedies and consent to any order issued pursuant to Section [1.28.030.B.6](#) and [B.7](#).

E. The administrative citation and any additional report submitted by the enforcement officer shall constitute *prima facie* evidence of the respective facts contained in those documents. If the party contesting the citation presents evidence to the contrary, the burden of proof shall shift to the enforcement officer.

F. The hearing officer may continue the hearing and request additional information from the enforcement officer or the recipient of the administrative citation prior to issuing a written decision. (Ord. 6836-NS § 3 (part), 2005; Ord. 6710-NS § 2, 2002)

---

**1.28.100 Hearing officer's decision.**

- A. After considering all of the testimony and evidence submitted at the hearing, the hearing officer shall issue a written decision to uphold, reduce or cancel the administrative citation and shall list in the decision the reasons for that decision. The decision of the hearing officer shall be final.
- B. If the hearing officer determines that the administrative citation should be upheld, then the fine amount on deposit with the City shall be retained by the City.
- C. If the hearing officer determines that the administrative citation should be upheld and the fine has not been deposited pursuant to an advance deposit hardship waiver, the hearing officer shall set forth in the decision a payment schedule for the fine.
- D. If the hearing officer determines that the administrative citation should be canceled or reduced and the fine was deposited with the City, then the City shall promptly refund the amount of the deposited fine or the amount paid in excess of the reduced fine, together with interest at the average rate earned on the City's portfolio for the period of time that the fine or excess fine amount was held by the City.
- E. The recipient of the administrative citation shall be served with a copy of the hearing officer's written decision.
- F. The employment, performance evaluation, compensation and benefits of the hearing officer shall not be directly or indirectly conditioned upon the amount or number of administrative citation fines upheld by the hearing officer. (Ord. 6710-NS § 2, 2002)

**1.28.110 Late payment charges.**

Any person who fails to pay to the City any fine imposed pursuant to the provisions of this chapter on or before the date that fine is due also shall be liable for the payment of any applicable late payment charges set forth in the schedule of fines, as well as interest at the legal rate. (Ord. 6710-NS § 2, 2002)

---

**1.28.120 Recovery of administrative citation fines and costs.**

The City may collect any past due administrative citation fine or late payment charge by use of all available legal means, including, but not limited to, means available for the collection of judgments, liens and actions for recovery of money. The City also may recover its collection costs. (Ord. 6710-NS § 2, 2002)

**1.28.130 Right to judicial review.**

- A. Any person aggrieved by an administrative decision of a hearing officer on an administrative citation may obtain review of the administrative decision by filing a petition seeking review in accordance with Government Code Section [53069.4](#).
- B. The City is prohibited from seeking review of an administrative decision of a hearing officer on an administrative citation pursuant to Government Code Section [53069.4](#).
- C. No administrative decision of a hearing officer on an administrative citation shall estop the City Council or any other board or commission or officer or employee of the City from exercising their independent authority and judgment in any other forum within or outside the City. (Ord. 7081-NS § 1, 2009; Ord. 6710-NS § 2, 2002)

**1.28.140 Notices.**

- A. Whenever a notice or report is required to be given or provided under this chapter, unless different provisions herein are otherwise specifically made, such notice may be given either by personal delivery thereof to the person to be notified or by deposit in the United States Mail, in a sealed envelope postage prepaid, addressed to such person to be notified at their last-known business or residence address as the same appears in the public records or other records pertaining to the matter to which such notice is directed. Service by mail shall be deemed to have been completed at the time of deposit in a U.S. mail box.
- B. Failure to receive any notice specified in this chapter does not affect the validity of proceedings conducted hereunder.

C. Proof of giving any notice may be made by the certificate of any officer or employee of the City, or by affidavit of any person over the age of 18 years, which shows service in conformity with this code or other provisions of law applicable to the subject matter concerned. (Ord. 6710-NS § 2, 2002)

---

---

**The Berkeley Municipal Code is current through Ordinance 7957-NS, passed April 15, 2025.**

Disclaimer: The City Clerk's Office has the official version of the Berkeley Municipal Code. Users should contact the City Clerk's Office for ordinances passed subsequent to the ordinance cited above.

[City Website: www.berkeleyca.gov](http://www.berkeleyca.gov)

[Hosted by General Code.](#)





Eric Weaver &lt;ericmartinweaver@gmail.com&gt;

---

## Citation Process

2 messages

---

**Winnacker, Dave** <DWinnacker@berkeleyca.gov>

Thu, Sep 18, 2025 at 9:29 AM

To: Eric Weaver &lt;ericmartinweaver@gmail.com&gt;

Eric,

Following up our conversation following the workgroup meeting yesterday, I reviewed the internal Administrative Citation process. In relevant part:

**BEFORE ISSUING A CITATION--**

**GIVE THE VIOLATOR A CHANCE TO CORRECT THE VIOLATION**

Before issuing a citation, give the violator a reasonable chance to correct the violation-- remember, this may be the first time he or she has heard about it.

*Note: From here on out, everything should be in writing.*

### A. First Notice

Send a "first notice and order to correct" to the violator. The purpose of this letter is to **politely**:

1. Notify the violator of the specific violation;
2. Explain how it must be corrected (*i.e.*, removal of brush, obtaining a building permit, getting a dog license, etc.);
3. Set a reasonable deadline for doing so.

### B. Penalties

Maximum administrative penalties, well beyond those permitted for infractions, have been established by Council resolution. **However, until we have gained experience with administrative citations, penalties should be the same as for infractions:**

\$100 for the first violation

\$200 for the second violation

\$500 for the third and subsequent violations.

In the case of exceptional violations that have serious consequences, a higher penalty may be imposed. **You should consult with the City Attorney's office before imposing any penalty higher than \$500.00.**

Please let me know if this answers your questions. I am available for a call to discuss as needed.

Best,

Dave

510.684.3021

---

**From:** Arnold, Colin  
**Sent:** Thursday, September 18, 2025 8:54 AM  
**To:** Winnacker, Dave <DWinnacker@berkeleyca.gov>  
**Subject:** Citations

Internal



Colin Arnold • Interim Assistant Fire Chief  
Wildland Urban Interface Division  
[carnold@berkeleyca.gov](mailto:carnold@berkeleyca.gov) • 510-981-5620

---

**Eric Weaver** <ericmartinweaver@gmail.com>  
To: "Winnacker, Dave" <DWinnacker@berkeleyca.gov>

Thu, Sep 18, 2025 at 10:00 AM

Hi Dave. So this is great. But it needs to be made clear to the public. In my opinion at a minimum it should be in the information sheet the BFD is developing. In advance of the completion of the sheet we should try to think of another way to publish it.

Thanks for looking into this for me.

Eric

Eric Weaver  
ericmartinweaver@gmail.com  
[Quoted text hidden]



Colin Arnold • Interim Assistant Fire Chief  
Wildland Urban Interface Division  
[canold@berkeleyca.gov](mailto:canold@berkeleyca.gov) • 510-981-5620

image001.png  
9K

## Proposed Modifications of Berkeley Fire Code for WUI Appeals and Violations

### Section 111 Means of Appeal

111.5 This Section 111, Means of Appeal, shall not apply to appeals arising from Section [] Wildland Urban Interface Regulations. Appeals from Wildland Urban Interface notices or violations shall be in accordance with Section [] Enforcement and Appeals from Wildland Urban Interface Decisions.

### Section 112 Violations

112.5 This Section 112, Violations, shall not apply to enforcement arising from Section [] Wildland Urban Interface Regulations. Appeals from Wildland Urban Interface notices or violations shall be in accordance with Section [] Enforcement and Appeals from Wildland Urban Interface Decisions.

DRAFT

## SECTION 111 MEANS OF APPEALS

**Section 111.1 Board of appeals established. Appeals Procedure** ~~In order to hear and decide appeals of orders, decisions or determinations made by the fire code official relative to the application and interpretation of this code, there shall be and is hereby created a board of appeals. The board of appeals shall be appointed by the applicable governing authority and shall hold office at its pleasure. The board shall adopt rules of procedure for conducting its business and shall render all decisions and findings in writing to the appellant with a duplicate copy to the fire code official. an appeal therefore may be taken to the City Council by the applicant or permit holder. Notice of the appeal must be filed with the City Clerk of the City of Berkeley within ten days from the date of mailing of the fire code official's decision to the applicant or permit holder. The notice of appeal shall contain a statement of the reasons for the appeal. The City Clerk shall forward one copy thereof to the fire code official. Within thirty days after the filing of the notice of appeal, the fire code official shall transmit to the City Council all their records pertaining to the decision appealed from.~~

**Section 111.1.1 Stay of Proceedings** ~~The filing of the notice of appeal shall stay all proceedings by all parties in connection with the matter upon which the appeal is taken until determination of the appeal as hereinafter provided, unless the fire code official determines that such a stay could result in an imminent threat to public safety.~~

**Section 111.3 Qualifications.** ~~The board of appeals shall consist of members who are qualified by experience and training to pass on matters pertaining to hazards of fire, explosions, hazardous conditions or fire protection systems, and are not employees of the jurisdiction.~~ **Decisions:** ~~The City Council shall review the action of the fire code official and shall do any one of the following:~~

- a. ~~Refer the matter back to the fire code official.~~
- b. ~~If the facts stated in or ascertainable from the application, the Notice of Appeal, the written statement of the fire code official setting forth the reason for their decision, and the other papers, if any, constituting the record do not, in the opinion of the City Council, warrant further hearing, the City Council may affirm the decision of the fire code official. Such decision shall be final.~~
- c. ~~If, in the opinion of the City Council, said facts warrant further hearing, the City Council shall set the matter for hearing and shall give notice of the time and place of said hearing by mailing a copy of such notice by certified mail to the address of the applicant as stated in the Notice of Appeal, at least ten (10) days before the time fixed for the hearing. The City Council may continue the hearing from time to time.~~
- d. ~~Following such hearing, the City Council shall reverse, affirm wholly or partly modify any decision of the fire code official, or make any other decisions or determinations or impose such conditions as the facts warrant. Such decision or determination shall be final.~~
- e. ~~If none of the above actions have been taken by the City Council within thirty (30) days from the date the appeal first appears on the City Council agenda, then the decision of the fire code official shall be deemed affirmed and the appeal shall be deemed dismissed.~~

- f. If the appeal is set for hearing but the disposition of the appeal has not been determined within ninety (90) days from the date the appeal first appears on the City Council agenda, then the decision of the fire code official shall be deemed affirmed and the appeal deemed dismissed.

111.4 Administration. The fire code official shall take immediate action in accordance with the decision of the Board City Council .

## **SECTION 112 VIOLATIONS**

**Section 112.1 Unlawful acts [Amended subsection].** It shall be unlawful for a person, firm or corporation to erect, construct, alter, repair, remove, demolish or utilize a building, occupancy, premises or system regulated by this code, or cause same to be done, in conflict with or in violation of any of the provisions of this code, or to create, maintain or allow to continue any fire hazard.

**Section 112.4 Violation penalties.** Persons who shall violate a provision of this code or shall fail to comply with any of the requirements thereof or who shall erect, install, alter, repair or do work in violation of the approved construction documents or directive of the fire code official, or of a permit or certificate used under provisions of this code, shall be guilty of a [SPECIFY OFFENSE], punishable by a fine of not more than [AMOUNT] dollars or by imprisonment not exceeding [NUMBER OF DAYS], or both such fine and imprisonment misdemeanor, but may be cited or charged, at the election of the enforcing officer or City Attorney, as infractions, subject to an election by the defendant under Penal Code Subsection 17 (d). Each day that a violation continues after due notice has been served shall be deemed a separate offense. In addition to all other legal remedies, civil or criminal (as set forth above), any violation of this code constitutes a public nuisance in accordance with B.M.C Chapter 1.26, and is subject to all provisions of B.M.C. Chapter 1.26, as well as abatement under B.M.C. Chapter 1.24, "Abatement of Nuisances". All such violations are also subject to the issuance of an administrative citation in accordance with B.M.C Chapter 1.28 at the discretion of the enforcing officer or the City Attorney.

## **SECTION 114 UNSAFE STRUCTURES OR EQUIPMENT**

**Section 114.7 Summary abatement.** Where conditions exist that are deemed hazardous to life and property, the fire code official or fire department official in charge of the incident is authorized to abate summarily such hazardous conditions that are in violation of this code. Where the owner does not comply with an abatement order under Section 114.4 within the period specified, the City of Berkeley may perform or cause to be performed the necessary work. The costs incurred shall be recoverable under the procedures in Section 114.7.1.

**Section 114.7.1 Abatement process [Additional subsection]** The abatement process shall be conducted in accordance with the notice and hearing requirements of the nuisance abatement provisions of Berkeley Municipal code chapter 1.24, including summary abatements of structures or premises determined by the City of Berkeley to constitute an imminent hazard or emergency condition.

**Chapter 2 of the California Fire Code is adopted in its entirety subject to the modifications thereto which are set forth below.**

Draft Enforcement and Appeals re City of Berkeley Fire Code Chapter 49 – Requirements For Wildland-Urban Interface Fire Areas

This Chapter only applies to enforcement and appeals for Berkeley Fire Code Chapter 49 – Requirements For Wildland-Urban Interface Fire Areas

Section 1- Notice of Non-compliance.

- (a) A Notice of Non-Compliance is issued by the City notifying a Property Owner that the Property Owner's property is not in compliance with Chapter 49.
- (b) Prior to issuing a Notice of Non-Compliance, the City shall make reasonable efforts to review with the Property Owner the ways in which the property is not in compliance with Chapter 49. The purpose of enforcement is to encourage Property Owners to come into compliance with Chapter 49. To that extent, enforcement efforts should be informative and lenient, so as to gain compliance without the need for fines and other enforcement measures.
- (c) Service. A Notice of Non-Compliance may be served on the Property Owner by personal service or by mail, mailed to the Property Owner at the Property Owner's address set out in the Alameda County Assessor's records. A Notice served by mail shall add five days to any compliance period.
- (d) Time to Comply. A Property Owner shall comply with a Notice of Non-Compliance within the following time periods:
  - (1) 90 days to comply before notice of violation is issued.
  - (2) Exceptions. The following categories of Property Owners have 120 days to comply:
    - (A) Senior (65 or older);
    - (B) Low-to moderate income (120 percent of the area median income);
    - (C) Disabled (state definition of disability)
  - (3) Monetary exception. All work in excess of \$2,000 as estimated by a responsible professional is carried over to the next year, unless assistance is available to pay for work required in the Notice of Non-Compliance.
- (e) Time to complete work pursuant to Notice of Non-Compliance may be extended further or the length of the compliance period if the property owner shows reasonable, good faith in proceeding to comply with the work required by the notice.
- (f) The compliance period may also be extended for good cause. For example, the infirmity of the Property Owner, the unavailability of contractors or others to perform the work.

- (g) At any time in this process, the Property Owner may give the City permission to enter the property to cure the Non-Compliance. In which case, the City will invoice the Property Owner for the costs, and if not paid within 6 months, the City may place a lien on the property, which lien may include all costs of curing the Non-Compliance and the costs of placing the lien on the Property.

#### Section 2 Administrative Citation for violation.

- (a) A Notice of Violation notifies a Property Owner that a Notice of Compliance has not been fully complied with and that the Property Owner will be issued an Administrative Citation as a penalty for non-compliance.
- (b) Property Owner failing to comply with a Notice of Non-compliance within the time frames set forth in Section 1 is considered in violation of Chapter 49 and may be given an administrative citation of \$100 for a first violation and given 90 (or 120 if an exception applies) days to comply with the Notice of Violation.
- (c) A Property Owner who fails to comply with a first notice of violation after the time permitted may be given an administrative citation of \$250, and 90 (or 120 if an exception applies) additional days to comply with the work required in the notice of non-compliance.
- (d) A Property Owner who fails to comply with a second notice of violation after 60 days may be given an additional administrative citation of \$500 and given 90 (or 120 days if an exception applies) additional days to comply with the work required in the notice of non-compliance.
- (e) The time frames to complete work after a Notice of Violation is issued may be extended for good cause.
- (f) If a Property Owner who has been given three Notices of Violation for the same non-compliance and has failed to complete the work required by the Notice of Non-Compliance within the allowed time, the City may seek permission from the Property Owner or a warrant to enter the property to complete the work. If the warrant is granted, permitting the City to enter the property to complete the work, the Property Owner may be charged for the cost of the corrective work and the cost of obtaining the warrant.

#### Section 3. Appeal.

- (a) Board of Appeals. There shall be a Board of Appeal consisting of three members. One member shall be qualified as a Hearing Officer, one shall be qualified by experience and training to pass on the hazards of fire, and one shall be a resident of the City. None of the Board Members may be current or former employees or contractors of the City, except for the Hearing Officer, who may have been a former contractor of

the City as a Hearing Officer. The Hearing Officer shall serve as the presiding officer of the Board. The members of the Board shall be hired or appointed by the City Manager. The resident member shall serve without compensation.

- (b) A Property Owner may appeal a Notice of Compliance or a Notice of Violation to the Board of Appeals within 30 days after a Notice of Non-Compliance or a Notice of Violation is served. The Appeal document shall set out all grounds for Appeal ~~and~~ Any documents supporting the appeal shall be due within 30 days after filing the appeal, unless the time is extended by the Hearing Officer. ~~provide any supporting documents.~~
- (c) Basis for Appeal. A Property Owner may appeal a Notice on the following grounds:
  - (1) The intent of Chapter 49 or any rules applying or interpreting the Chapter have been incorrectly applied or interpreted,
  - (2) Chapter 49 does not apply to the property or circumstances of the Notice of Non-Compliance or Notice of Violation;
  - (3) An equally good or better form of construction for Chapter 49 is proposed;
  - (4) The facts of the Notice are in error,
  - (5) City denied an Alternate Means and Measures Request,
  - (6) Compliance with a Notice may cause substantial harm to the property or neighboring properties (such as mudslides)
  - (7) Such other good cause (such as incapacity or lack of financial resources to comply).
- (d) The Board shall not have the authority to waive requirements of Chapter 49 or to interpret the administration of this Chapter.
- (e) Stay. The filing of an Appeal stays any action on the Notice until the Appeal is decided by Board, except in the case of an immediate danger.
- (f) Final City Decision. The Board's decision is the final decision of the City.
- (g) Open hearing. All proceedings of the Board shall be publicly noticed and open to the public.
- (h) City support. The City Clerk shall provide support for the Board as the Board shall require. The City Attorney shall provide such legal support for the Board as the Board shall require.
- (i) City Review of Appeal. Prior to the Board hearing an Appeal, the City may review the Appeal and may address the issues raised in the Appeal and rescind or modify the Notice at issue. The City and the Property Owner may also engage in negotiations or mediation to seek to resolve the issues in the Notice informally.
- (j) City response. The City shall have 30 days to respond to an Appeal, unless extended by the Hearing Officer.

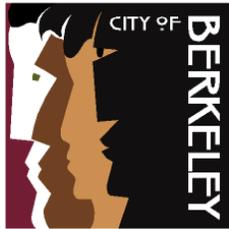
- (k) Property Owner Reply. The Hearing Officer may permit a Property Owner to reply to the City's appeal response, if good cause is shown, and set the time frame for the reply.
- (l) Extensions of Time. The Hearing Officer may grant such extensions of time for good cause that either the Property Owner or the City may seek.
- (m) The Board shall establish policies and procedures necessary to carry out its duties consistent with the provisions of this Chapter and applicable law. The procedures shall not require compliance with strict rules of evidence, and shall follow those rules commonly applicable to administrative hearings.
- (n) Decision. The Board may affirm, modify, or reverse a decision of the City with a majority vote.
- (o) Final Decision. The Board's decision is the final decision of the City.

### Section 3. Right of Judicial Review.

- (a) Any person aggrieved by an administrative decision of the Board may obtain review of the Board's decision by filing a petition seeking review in accordance with Government Code Section [53069.4](#).
- (b) The City is prohibited from seeking review of Board's decision pursuant to Government Code Section [53069.4](#).

### Section 4. Right to Request Review by the California Fire Marshall.

- (a) Whenever an Appeal implicates an application or interpretation of the California Fire Code, the Property Owner or the City may appeal the Board's decision to the California Fire Marshall pursuant to [state code citation].



Office of the City Manager

INFORMATION CALENDAR

September 9, 2025

To: Honorable Mayor and Members of the City Council

From: Paul Buddenhagen, City Manager

Submitted by: David Sprague, Fire Chief

Subject: Fire Hazard Severity Zone 0 Implementation Plan

INTRODUCTION

This report provides an update on the progress of implementing the Zone 0 component of the Effective Measures for Berkeley's Ember Resilience (EMBER) initiative, adopted by the City Council on June 17, 2025. EMBER is a comprehensive strategy aimed at reducing ignition risk within the community during a wildfire through vegetation management, resident engagement, home hardening incentives, and interagency partnerships. Council adopted the portion of EMBER that added Zone 0 defensible space principals to the Berkeley Municipal Code.

CURRENT SITUATION AND ITS EFFECTS

While the implementation plan is designed and launched, the Department has already taken meaningful action by narrowing the annual Defensible Space Inspection area from the former Very High Fire Hazard Severity Zone (over 9,000 parcels) to the Grizzly Peak and Panoramic Mitigation areas; just under 1,400 properties.

The smaller inspection area allows residents to make individual, scheduled appointments – a long sought after enhancement to the program. Inspectors are spending up to an hour with each resident discussing compliance, mitigation strategies, and upcoming code changes, compared to minimal engagement during past annual inspections due to the volume.

During this transition period, inspectors have been following a two-step approach:

1. Perform one property walkthrough using the existing legacy code.
2. Perform a second walkthrough explaining the 2026 code requirements and working with residents to create phased work plans that guide them towards improving resilience without requiring immediate completion of all the work.

Note: Residents are only required to comply with the legacy code, but many are choosing to move ahead with efforts to begin alignment of their properties with the forthcoming Zone 0 code, which will be rolled out in 2026.

## Resident Engagement

The Department has been tracking a significant increase in resident participation and in-person engagement with inspectors, including:

- **Full 360° inspections have increased from 36.3% to 55.6% (+19.3%),** a considerable improvement. Each full 360° inspection yields a more comprehensive recommendation for how a resident can reduce ignition risk and build resilience.
- **Residents walking with inspectors rose from 12.7% to 47% (+34.3%),** which results in a better understanding of the work that needs to occur.
- **Defensible space violations identified more than doubled** from the same period last year, from 244 to 571, indicating deeper and more thorough inspections.
- **Defensible space report engagement improved,** with 67.7% of residents opening their reports within 15 days, up from 59.7% last year.

## Vegetation Management – Chipping Services

The chipping program, which provides removal of more substantial vegetation that does not fit in a green bin, at no charge to residents, provides additional data points that support the effectiveness of the new approach.

- Through July 2025 crews have performed 673 pickups, removing 2,384 cubic yards of material, that's **17% more pickups and 44% more volume than the same period in 2024.**
- Strong growth in new participants via word-of-mouth and neighborhood outreach.

## BACKGROUND

The Department has developed a phased implementation plan to roll out the new Zone 0 requirements within the City's highest wildfire risk areas. This plan outlines the sequence of administrative, operational, and community engagement activities necessary to ensure a smooth transition. While the core milestones are established, the Department recognizes that implementation will require flexibility; adjustments will be made as needed based on lessons learned during each phase, particularly as the organization moves through the Fall and Winter of 2025.

## Phase I – Administrative & Structural Changes (July 2025 – October 2025)

- **July 2025:**
  - Update maps on public facing GIS portal. Visit <https://berkeleyca.gov> and then search "GIS". Select the "Community GIS Portal" link.

- Scroll down to find the “Fire and Emergency Services” link.
  - Select members for the resident working group and create the administrative and logistical structure to support it.
  - Design, build and launch digital Right of Entry form to allow residents to provide advance written permission for 360° inspections without owner present.
  - Design and launch the new workflow for the Resident Assistance Program (RAP). RAP provides city support to bring a parcel into compliance with the Fire Code.
  - Design and launch a solicitation for professional fire-wise landscape planning services.
  - Reconfigure inspection software (pending any additional changes to the municipal code approved by Council in December 2025). The process of refining language in the software will continue through 2025 as feedback from inspections and resident interactions is used to improve the platform.
- **August 2025:**
    - Coordinate schedules with community members and launch the resident working group.
    - Run the first tranche of eligible properties through the RAP as a beta test and design, prepare and advertise a webinar for all eligible properties in September.
    - Begin a complete redesign of the Berkeley Fire Safe website to provide a more sophisticated and intuitive user interface, making it easier for residents to find and act on critical information. Key improvements will include targeted, parcel-specific guidance based on geographic location; a clearly organized, step-by-step approach that breaks requirements and best practices into manageable actions; and streamlined navigation to connect users quickly with resources, checklists, and compliance tools.
  - **September 2025:**
    - Testing and final modifications to the Berkeley Fire Safe webpage.
    - Begin procurement for a communications consultant to assist in designing and running a multi-channel Zone 0 outreach program with a goal to have a consultant selected and onboarded by November 2025.

- **October 2025:**

- Launch new Berkeley Fire Safe webpage with updated user interface, branding and messaging.
- Update all existing public-facing information (websites, printed guides, FAQs).

### **Outreach & Engagement Rollout (November 2025 – March 2026)**

- **November 2025:**

- Finalize and launch outreach campaign with selected communications vendor. Potential components are outlined in the following months and are subject to change once a vendor is selected.
- Potential Step 1: Begin coordinated digital outreach (City email newsletters, social media, online ads).

- **December 2025 – January 2026:**

- Potential Step 2: Mail brochures and postcards to all affected parcels.
- Potential Step 3: Conduct public workshops, neighborhood Q&A sessions, and tabling at community events.

- **February – March 2026:**

- Begin inspector and staff training (classroom + field sessions).
- Potential Step 4: Partner with Home Owner Associations, neighborhood associations, FireWise groups, FireSafe Councils and local organizations for targeted outreach.
- Potential Step 5: Release short educational videos and “how-to” guides featuring local inspectors and subject matter experts.

### **Phase II – Beta Inspections (March 2025 – April 2026)**

- **March 2026:**

- Conduct pilot inspections in selected neighborhoods.
- Analyze findings and make necessary program improvements.

- **March – April 2026:**

- Make final adjustments to program including staff training, messaging, policy and procedures.

**Phase III – Full Implementation (May 2026 – Ongoing)**

• **May 2026:**

- Begin Zone 0 inspection cycle across mitigation areas.
- Review data annually to refine outreach and enforcement.

ENVIRONMENTAL SUSTAINABILITY AND CLIMATE IMPACTS

Reducing flammable vegetation and promoting fire-resistant landscaping supports climate adaptation goals, decreases wildfire-related greenhouse gas emissions, enhances preparedness, and preserves healthy mature trees.

POSSIBLE FUTURE ACTION

1. Continue low-volume, high-engagement inspection model.
2. Expand Resident Assistance Program scope and eligibility.
3. Increase nonprofit-managed home hardening funding.
4. Develop additional partnerships with regional Fire Safe Councils and grant-makers.

FISCAL IMPACTS OF POSSIBLE FUTURE ACTION

All fiscal impacts are currently projected to be covered through the Department's baseline budget allocations or grant funding.

CONTACT PERSON

David Sprague, Fire Chief, Berkeley Fire Department, (510) 981-3473

ATTACHMENTS:

1: Current Coaching Guide for Residents. Note: Will be integrated into the Defensible Space Inspection software by the time of this Council meeting.

# WILDFIRE HOME PROTECTION PLAN WORKSHEET

A PERSONALIZED GUIDE TO MEETING THE 2026 FIRE CODE

Property Address: \_\_\_\_\_ Resident Name: \_\_\_\_\_

Inspector(s): \_\_\_\_\_ Date: \_\_\_\_\_

### Resources you Qualify for:

- Resident Assistance Program
- Home Hardening Mesh Program
- Eucalyptus Understory Program

Visit [berkeleyfiresafe.org/programs](https://berkeleyfiresafe.org/programs), or email [firesafe@berkeleyca.gov](mailto:firesafe@berkeleyca.gov)

### Plan to address hazards in Ignition Zone 0 (0-5 ft. from a structure)

Priority items to be completed by May, 2026 (From structure out and ground up):

- |                                                   |                                                               |                                                                            |                                                   |                                        |
|---------------------------------------------------|---------------------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------|----------------------------------------|
| <input type="checkbox"/> Ground Cover             | <input type="checkbox"/> Shrub Removal                        | <input type="checkbox"/> Limb Trees/Hedges within 5'                       | <input type="checkbox"/> Limb Trees (10' of roof) | <input type="checkbox"/> Remove Hedges |
| <input type="checkbox"/> Move combustible storage | <input type="checkbox"/> Re-pot plants into 5 gal. Containers | <input type="checkbox"/> Replace/Remove combustible gates/fences within 5' |                                                   |                                        |

Other: \_\_\_\_\_

Items to be addressed in the next phase of work (After 2026):

- ✓ \_\_\_\_\_
- ✓ \_\_\_\_\_

(continued on next page)

Plan to address hazards in Ignition Zone 1 (5-30 ft. from a structure)

Priority items to be completed by May, 2026 (From structure out and ground up):

Shrub Spacing:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Remove Ladder Fuels:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Separate Contiguous Fuels (Hedges, etc):

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Other:**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Items to be addressed in the next phase of work (After 2026):

- ✓ \_\_\_\_\_
- ✓ \_\_\_\_\_
- ✓ \_\_\_\_\_

**Other notes:**

FOLLOW UP FORM (IF NEEDED)

Date:

Inspector Name:

Resident Name:

Best Form of Resident Contact:

Information Needed:

Office Response:

## **BFD WUI Division Inspection and Compliance Process Statement**

The Berkeley Fire Department's Wildland Urban Interface (WUI) Division is committed to reducing hazardous vegetation and promoting home-hardening measures that protect lives, property, and our community from wildfire.

Our approach is based on compliance through education, with citations used only as a last resort. The division's goal is to achieve lasting risk reduction by helping residents understand what constitutes a hazard and how to address it safely and effectively.

During annual inspections, our staff emphasize outreach and education. Most residents in the Very High Fire Hazard Severity Zone are already aware of the risks and often need only clarification or guidance to achieve compliance.

While the Fire Code grants authority to issue citations, inspectors are directed to prioritize collaboration. They are empowered to identify the most significant hazards, work with residents to develop reasonable timelines for mitigation, and recognize legitimate challenges such as financial constraints, contractor availability, or environmental limitations.

When violations are issued, residents are provided a 60-day window for corrective action, followed by a reinspection. If hazards remain unaddressed, a service fee is applied for the reinspection, and a citation, typically \$100, may be issued 14 days later. Citations escalate only in rare cases of continued, willful noncompliance.

Ultimately, enforcement is reserved for situations where education and cooperation have failed. The division's philosophy is simple: help first, enforce when necessary; financial costs are best directed at the work to be done. By working in partnership with our community, we aim to create a safer, more resilient Berkeley.

# WUI VEGETATION CODE WORKGROUP

## REGULAR MEETING

November 5, 2025

2:00 PM

Cypress Room – 2180 Milvia St. 1<sup>st</sup> Floor

Fire Chief's Representative – Asst. Chief Colin Arnold

Assistant Chief David Winnacker  
Richard Illgen  
George Perez-Velez

Eric Weaver  
Margit Roos-Collins

### DRAFT MINUTES

#### Preliminary Matters

Call to Order: 2:00 PM

#### Present:

- Assistant Fire Chief, Colin Arnold
- Assistant Fire Chief, David Winnacker
- Eric Weaver
- Margit Roos-Collins
- George Perez-Velez
- Richard Illgen

#### Approval of October 22 and October 29 Minutes

Motion by Eric Weaver, seconded by George Perez-Velez, and approved by consensus.

#### Public Comment on Non-Agenda Matters

Public Members: 1

**AGENDA MATTERS** *All Regular agenda matters are for discussion and possible action.*

1. **Action:** Discussion and possible action on suggestions for the Resident Guide.

**Written Materials:** Draft List of Proposed Ideas for the Resident Guide

**Discussion:** The group continued reviewing the updated website and discussed the ongoing development of the Resident Guide. Members emphasized the importance of making the guide easily accessible, recommending that it be placed on the main homepage rather than within other links. They also suggested highlighting Zone 0 and defensible space information on the landing page. Additional feedback included revising the Resident Guide framework to ensure the title clearly conveys its purpose and excluding an FAQ section. The group discussed the anticipated timeline for completing the Resident Guide and agreed to continue the discussion at the next meeting.

**2. Action:** **Discussion on developing a framework for submitting scientific evidence for review.**

**Written Materials:** LA Report to BOF Zone Zero Committee

**Discussion:** The group questioned whether there is scientific evidence that the presence of plants either reduces fire hazards or does not increase them.

Members also discussed erosion concerns and possible approaches for addressing properties with erosion issues.

The group agreed to add a new agenda item titled "Code Comparison." The accompanying materials for this topic will include:

- A Clean Draft of the new language
- A Clean Draft of the old language
- A tracked-changes version comparing the new and old language
- A link to the Fire Pathways Risk Assessment
- A link to the Berkeley Fire Hazard Severity Zones and CAL FIRE LRA Map Update

**3. Action:** **Agenda topics submitted by a member for consideration and discussion:**  
State Fire Regulations  
Excerpts from the Government Code on Fire Zones  
Soils and Geology  
Fire-resistant Vegetation  
Eucalyptus and Other Dangerous Trees

Building Composition and Compliance  
Compliance Costs  
Review and Discussion of Submitted Reference  
Materials on Wildfire Preparedness and Zone 0  
Regulations

**Written Materials:** **To reduce printing and paper use, referenced documents below will be available in a binder for public access at the meeting.**

State Fire Regulations  
Excerpts from the Government Code on Fire Zones  
Firewise: How To Prepare Your Home For Wildfires  
Elsevier, Landscape and Urban Planning article  
NFPA Preparing Homes for Wildfire  
Reducing the Vulnerability of Buildings to Wildfire  
Science Summary by Dr. Travis Longcore  
Brentwood HOA Comments on Proposed Zone 0  
Regulations  
Zone 0 Won't Save Your Home from Wildfire

**Discussion:** Agenda Item #3 was not addressed and will be carried forward to the next regular meeting for possible discussion.

**4. Action:** **Discussion regarding citations, penalties, and appeals process and reviewing differing perspectives on the enforcement approach (e.g., formal vs. informal).**

**Written Materials:** BMC 1.28  
Email regarding internal Administrative Citation Progress.  
Proposed Modifications of Berkeley Fire Code for WUI Appeals and Violations  
Report 26, Fire Hazard Severity Zone 0 Implementation Plan, dated September 9  
BFD WUI Division Inspection and Compliance Process Statement

**Discussion:** Agenda Item #4 was not addressed and will be carried forward to the next regular meeting for possible discussion.

## **WORK GROUP REPORTS**

## Adjournment

The meeting was adjourned at 4:00 PM on a motion by Margit Roos-Collins, seconded by George Perez-Velez, and approved by consensus.

The next regular meeting is scheduled for Wednesday, November 12, 2025, at 9:00 AM.

*This meeting will be conducted in accordance with the Brown Act, Government Code Section 54953. Any member of the public may attend this meeting. Questions regarding this matter may be addressed to the Wildland Urban Interface Division of the Berkeley Fire Department, [wildfire@berkeleyca.gov](mailto:wildfire@berkeleyca.gov) 510-981-5620. Communications to Berkeley boards, commissions or committees are public record and will become part of the City's electronic records, which are accessible through the City's website. Please note: E-mail addresses, names, addresses, and other contact information are not required but, if included in any communication to a City board, commission, or committee, will become part of the public record. If you do not want your e-mail address or any other contact information to be made public, you may deliver communications via U.S. Postal Service or in person to the secretary of the relevant board, commission, or committee. If you do not want your contact information included in the public record, please do not include that information in your communication. Please contact the secretary to the relevant board, commission, or committee for further information. Any writings or documents provided to a majority of the commission regarding any item on this agenda will be made available for public inspection at Berkeley Fire Department located at 2100 Martin Luther King Jr. Way Berkeley, CA.*

### COMMUNICATION ACCESS INFORMATION:

This meeting is being held in a wheelchair-accessible location. To request a disability-related accommodation(s) to participate in the meeting, including auxiliary aids or services, please contact the Disability Services specialist at 981-6418 (V) or 981-6347 (TDD) at least three business days before the meeting date. Please refrain from wearing scented products to this meeting.

~~~~~  
I hereby certify that the agenda for this regular/special meeting of the Berkeley City's Disaster and Fire Safety Commission was posted at the front of the Division of Training, 997 Cedar Street, as well as on the City's website, three days prior to the scheduled Commission meeting.

### SECRETARY SIGNATURE

*Colin Arnold*