

# **Comparison of Los Angeles City Housing Code to the National Healthy Housing Standard and the International Property Maintenance Code**

**Prepared by Tom Neltner of the National Center for Healthy Housing (NCHH)  
on behalf of Healthy Housing Solutions, Inc.**

**Draft: February 24, 2015**

## **Summary**

The Los Angeles City housing code supplemented by state laws and regulations has the same or similar requirements to 22 of the 156 applicable mandatory provisions of the National Healthy Housing Standard (NHHS). It did not appear to have any of the 52 stretch provisions of the NHHS. Seven of the 21 were in the state laws and regulations and not the city's code. While we are not certain that the City can inspect and enforce these state-level requirements by reference, it seems likely. One of the mandatory provisions was not applicable because it was not relevant to the county's climate.

Although it appears that the County Housing Code is incorporated into the City's requirements by reference pursuant to section 31.00(a), our discussion with City's staff indicates that this is not the case. Therefore, we did not give the City credit for those provisions only found in the county code; most of these dealt with pests. If the City could enforce the county code, it would add 15 provisions for a total of 37.

Overall, we found that City code supplemented with the state's requirements covered 10% of both mandatory and stretch provisions of the NHHS and 13% of its mandatory provisions.

Figure 1 provides a breakdown for each of the six applicable sections of the NHHS. The city housing code scored highest on the moisture control, solid waste, and pest management requirements of the NHHS, with 17% of all provisions and 21% of the mandatory ones. It had a similar score for chemical and radiological agent requirements, primarily due to the state housing law's lead-based paint requirements, with 16% of all provisions and 19% of mandatory ones. We could find one provision addressing the safety and personal security requirements of the NHHS, possibly due to that being handled by another agency, such as the fire department.

Tables 1 to 6 provide a detailed comparison for each of the six sections of the NHHS. The seventh section deals with the relative duties of owners and occupants. The city code had two of the 10 NHHS provisions. We did not include it as a table or in the figure, because the code was not clear on these responsibilities. It is included in the overall numbers.

Minimum housing standards built on the latest health research when coupled with an effective inspection and enforcement program are essential tools to protect the health and safety of residents. Some of the low scores are due to the broad language in many of the city and state requirements. The ambiguity may have been resolved through precedent and guidance that we did not review. The scores may also be because another agency's handles those issues such as

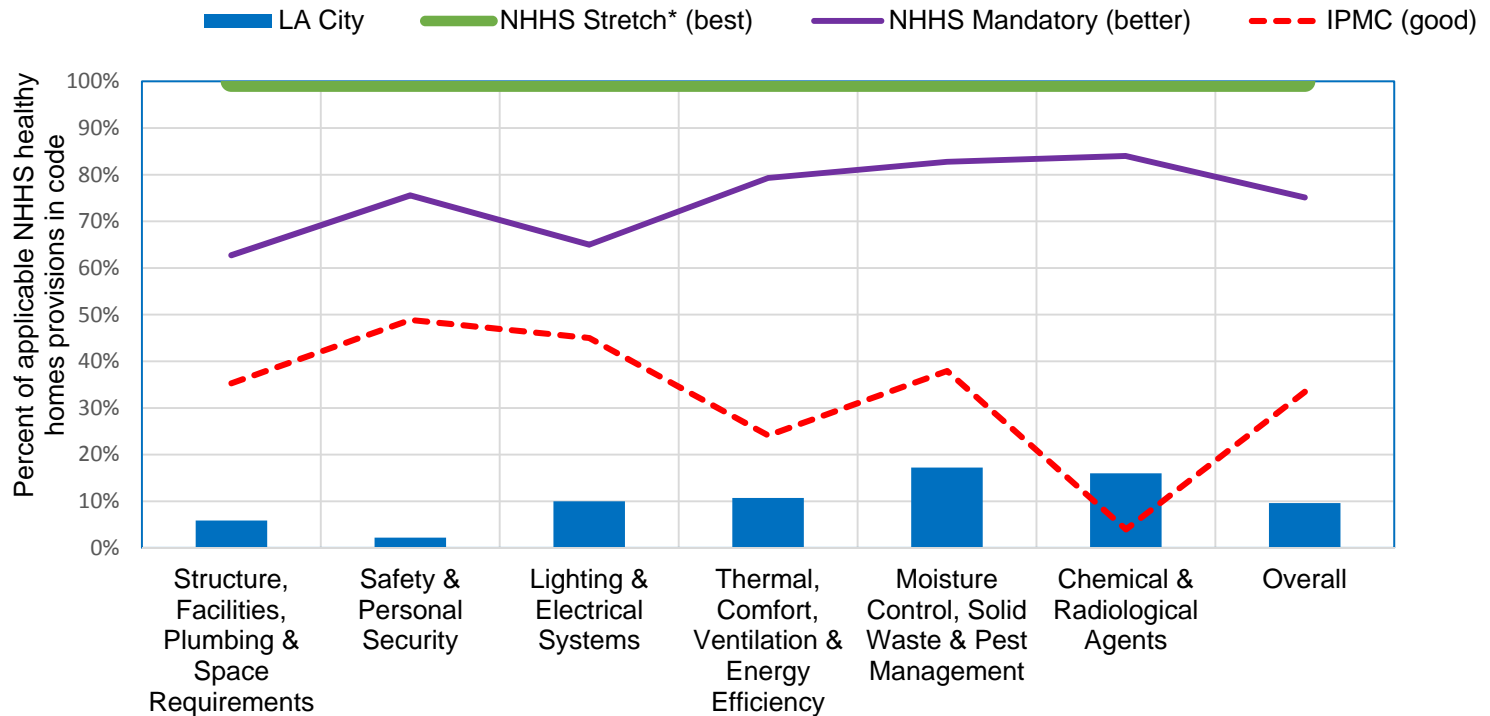
the fire code official on safety and egress issues. Inspectors may know this safety-oriented codes and be making referrals.

If Los Angeles City is considering upgrading its housing code to better protect city residents, it should consider the provisions of the NHHS to identify opportunities. The information in Tables 1 to 6 should be the starting point for that consideration. Clarifying relative responsibilities of owner and occupant would also be helpful. The National Center for Healthy Housing is able to assist in this effort.

We did find some provisions in the city code not included in the NHHS that may be worth considering for future revisions to the NHHS. Most notable were:

- 91.8104.15. The exterior of all privately-owned buildings and fences shall be free from graffiti when such graffiti is visible from a public street or alley.
- 91.8104.10.1. All water supply lines to kitchen and bathroom fixtures shall be maintained so as to provide at least one gallon per minute rate of water flow, of at least 100° F. However, the maximum temperature at the water heater or storage tank need not exceed 140° F.

**Figure 1: Comparison of LA County and City Codes to IPMC and NHHS**



**Notes:**

Percentages exclude those not applicable. See Table 1 for details.

LA County =

LA City =

UPCS = Uniform Physical Condition Standards as of 11/17/14 from [www.hud.gov/offices/reac/pdf/pass\\_bulletin.pdf](http://www.hud.gov/offices/reac/pdf/pass_bulletin.pdf).

NHHS = National Healthy Homes Standard (2014 version)

\* "NHHS Stretch" includes mandatory and stretch provisions of NHHS.

**Background:**

With funding from the U.S. Department of Housing and Urban Development (HUD), Healthy Housing Solutions, Inc. (Solutions) contracted with the National Center for Healthy Housing (NCHH) to compare the housing code enforced by the Los Angeles City against the National Healthy Housing Standard (NHHS) and the International Property Maintenance Code. For the housing code, we used the following provisions from the Los Angeles Charter and Administrative Code from [www.amlegal.com](http://www.amlegal.com) as we downloaded it on December 31, 2014.

- Los Angeles Charter and Administrative Code
  - Chapter 2, Department of Building and Safety
  - Chapter 24, Los Angeles Housing Department
- Los Angeles Municipal Code
  - Chapter III, Division 31, Public Health Code
  - Chapter III, Division 81, Existing Buildings and Structures – General Requirements
  - Chapter XVI, Housing Regulations
    - Article 1, Housing Code
    - Article 2, Rent Escrow Account Program
    - Article 3, Tenant Relocation Assistance Program
    - Article 4, Foreclosure Registry Program

We supplemented the country code with the following California laws and regulations because the City appears to be authorized to inspect for violations and take action as appropriate.

- California Law
  - Sections 17910 to 17959 regarding State Housing Law
  - Section 10520 to 10527 regarding lead-based paint.
- California Code of Regulation
  - 25 CCR Section 1 to 134 regarding state housing law regulations
  - 17 CCR Section 35001 to 36001 regarding accreditation, certification, and work practices for lead-based paint and lead hazards

NCHH compared the combined requirements against the NHHS that was first published in 2014<sup>1</sup> by NCHH and the American Public Health Association (APHA) to translate the latest public health information on the impacts of housing on resident health and safety into housing code parlance. It is designed to complement the International Property Maintenance Code and other policies already in use by local and state governments and federal agencies for the upkeep of existing homes. It consists of seven sections with a total of 209 provisions, 157 of which are mandatory and 52 are stretch or optional provisions.

NCHH also compared the two HUD standards against the International Property Maintenance Code (IPMC)<sup>2</sup> which is one in the suite of codes developed by the International Code Council (ICC) for property design, construction, and maintenance. The IPMC applies statewide in five states (Maryland, New York, Rhode Island, Virginia, and West Virginia) and the District of Columbia as well as many local governments in 31 other states. ICC first published it in 1998 and updates it every three years. The most recent version is the 2015 edition. The IPMC consists of

---

<sup>1</sup> See <http://www.nchh.org/Policy/NationalHealthyHousingStandard.aspx>.

<sup>2</sup> See <http://shop.iccsafe.org/codes/2012-international-codes/2012-international-property-maintenance-code.html>.

eight chapters, including ones for administration, definitions, and referenced standards, and has an optional appendix that addresses the boarding of windows and doors of vacant structures. The IPMC applies “to all existing residential and nonresidential structures and all existing premises and constitute minimum requirements and standards for premises, structures, equipment and facilities for light, ventilation, space, heating, sanitation, protection from the elements, a reasonable level of safety from fire and other hazards, and for a reasonable level of sanitary maintenance; the responsibility of owners, an owner’s authorized agent, operators and occupants; the occupancy of existing structures and premises, and for administration, enforcement and penalties.”<sup>3</sup>

Using the NHHS and IPMC, NCHH developed three benchmarks and, for simplicity, rated them “good,” “better,” and “best”:

1. IPMC requirements (good);
2. NHHS mandatory provisions (better); and
3. NHHS stretch and mandatory provisions (best).

### **Comparison grouped by six sections of the NHHS**

The NHHS consists of 209 provisions: 157 mandatory and 52 stretch or optional that are grouped in seven sections. For purposes of our analysis, we dropped the first section dealing with relative duties of the owner and the occupant, because city code does not clearly make that distinction. Presumably, it rests with the judgment of the City.

For each of the NHHS provisions, we sought to identify requirements in the Los Angeles code (as supplemented by the state laws and regulations) and determine if the code was (1) the same; (2) similar; (3) not the same or similar; or (4) not applicable (usually because it applied to the responsibilities of the owner and occupant and not the condition of the property). Because the IPMC is a good housing quality code, we also include a comparison of the NHHS provisions to it. The following six tables summarize the results for the IPMC and Los Angeles Code for each of the six NHHS sections. We did not identify provisions in the local code not contained in the NHHS.

---

<sup>3</sup> IPMC, Section 102.2.

Structure, Facilities, Plumbing, and Space Provisions		
IPMC	Los Angeles City	
same or similar 32 mandatory 19 stretch.	8% same or similar (0 NA) - 4 of 32 applicable mandatory - 0 of 19 applicable stretch	
applicable mandatory same or similar.	1 of 1 applicable mandatory same or similar (1 based on California (CA) Code)	
applicable mandatory same or similar. <b>Does not require:</b> water heaters other than gas-type to be isolated from habitable rooms and, in multifamily housing, behind a locked door.	0 of 2 applicable mandatory same or similar. <b>Does not require:</b> <ul style="list-style-type: none"> <li>Compliance with applicable regulations.</li> <li>Water heaters other than gas-type to be isolated from habitable rooms and, in multifamily housing, behind a locked door.</li> </ul>	•
applicable mandatory same or similar mandatory. <b>Does not require:</b> maximum water temperature at shower or bathtub or that tank's relief valve discharge to drip pan, tank, or outside. any of the stretch provisions.	2 of 5 applicable mandatory same or similar. <b>Does not require:</b> <ul style="list-style-type: none"> <li>Maximum water temperature at shower or bathtub or that tank's relief valve discharge to drip pan, tank, or outside.</li> <li>Waste pipe connected to an approved sewage disposal system.</li> <li>Faucet discharge above overflow rim.</li> <li>Any of the stretch provisions.</li> </ul>	•
applicable mandatory same or similar. <b>Does not require:</b> cabinets or countertops. oven for cooking. exhaust ventilation for range. refrigerator with a freezer. or that is sealed, water-resistant, nonabsorbent, and cleanable. connections for a refrigerator if one is not provided. any of the stretch provisions.	0 of 9 applicable mandatory same or similar. <b>Does not require:</b> <ul style="list-style-type: none"> <li>Cabinets or countertops.</li> <li>Range.</li> <li>Oven other than microwave.</li> <li>Freezer.</li> <li>Floor that is sealed, water-resistant, nonabsorbent, and cleanable.</li> <li>Connections for a refrigerator if one is not provided.</li> <li>Exhaust ventilation for range.</li> <li>Sink.</li> <li>Any of the stretch provisions.</li> </ul>	•
applicable mandatory same or similar. <b>Does not require:</b> sink. other stretch provision.	0 of 6 applicable mandatory same or similar. <b>Does not require:</b> <ul style="list-style-type: none"> <li>Sink.</li> <li>Bathtub.</li> <li>Toilet.</li> <li>Walls above bathtub or shower that are cleanable and nonabsorbent.</li> <li>Cleanable, nonabsorbent, water-resistant floors and cleanable and nonabsorbent walls above bathtub or shower.</li> <li>Either stretch provision.</li> </ul>	•

Minimum space - 7 mandatory - 0 stretch	4 of 7 applicable mandatory same or similar. <b>Does not require:</b> <ul style="list-style-type: none"> <li>• Access to a habitable room other than through a bathroom.</li> <li>• Closet or storage space for clothing and personal belongings.</li> <li>• Waterproof and dampness free below-grade habitable rooms.</li> </ul>	0 of 7 applicable mandatory same or similar. <b>Does not require:</b> <ul style="list-style-type: none"> <li>• Access to a habitable room other than through a bathroom.</li> <li>• Access to bathroom without going through bedroom.</li> <li>• Closet or storage space for clothing and personal belongings.</li> <li>• Waterproof and dampness free below-grade habitable rooms.</li> <li>• Minimum ceiling height of 84”.</li> <li>• Privacy and adequate space for sleeping and living.</li> <li>• Minimum floor area of 70 square feet.</li> </ul>	•
Floors and floor covering - 1 mandatory - 2 stretch	0 of 1 applicable mandatory same or similar. <b>Does not require:</b> <ul style="list-style-type: none"> <li>• Attachment of floor coverings at each threshold with floors capable of being cleaned and free of bulges and buckling and carpets free of tears, folds, or bumps.</li> <li>• Either stretch provision.</li> </ul>	1 of 1 applicable mandatory same or similar. <b>Does not require:</b> <ul style="list-style-type: none"> <li>• Either stretch provision.</li> </ul>	•
Noise - 1 mandatory - 5 stretch	0 of 1 applicable mandatory same or similar. <b>Does not require:</b> <ul style="list-style-type: none"> <li>• Noise level from exterior sources to be less than 45 dB day-night equivalent sound level.</li> <li>• Any stretch provisions.</li> </ul>	0 of 1 applicable mandatory same or similar. <b>Does not require:</b> <ul style="list-style-type: none"> <li>• Noise level from exterior sources to be less than 45 dB day-night equivalent sound level.</li> <li>• Any stretch provisions.</li> </ul>	•

Table 2: Comparison of Safety and Personal Security Provisions			
NHHS	IPMC	Los Angeles City	
Summary - 34 mandatory - 11 stretch	36% same or similar - 14 of 34 mandatory - 2 of 11 stretch	2% same or similar (0 NA) - 1 of 34 applicable mandatory - 0 of 11 applicable stretch	
Egress - 7 mandatory - 0 stretch	2 of 7 applicable mandatory same or similar. <b>Does not require:</b> <ul style="list-style-type: none"> <li>Two means of emergency escape or rescue.</li> <li>Openable bedroom window for emergency escape below fourth floor.</li> <li>Adequate emergency exit for below-grade bedroom (including two provisions describing dimension).</li> </ul>	0 of 7 applicable mandatory same or similar. <b>Does not require:</b> <ul style="list-style-type: none"> <li>Two means of emergency escape or rescue.</li> <li>Openable bedroom window for emergency escape below fourth floor.</li> <li>Adequate emergency exit for below-grade bedroom (including three provisions describing dimension).</li> <li>Unobstructed egress with doors openable from inside without key or tool.</li> </ul>	•
Locks/ Security - 5 mandatory - 0 stretch	3 of 5 applicable mandatory same or similar. <b>Does not require:</b> <ul style="list-style-type: none"> <li>Change of locks at change of tenants.</li> <li>Self-closing exterior door that can be opened from inside without lock or tool.</li> </ul>	0 of 5 applicable mandatory same or similar. <b>Does not require:</b> <ul style="list-style-type: none"> <li>Change of locks at change of tenants.</li> <li>Self-closing exterior door that can be opened from inside without lock or tool.</li> <li>Unit entry doors with dead bolt openable from inside without key and has viewing device.</li> <li>Lock on windows capable of being opened that could be used for entry.</li> <li>Locks on windows and doors for egress.</li> </ul>	•
Smoke alarm - 4 mandatory - 4 stretch	3 of 4 applicable mandatory same or similar. <b>Does not require:</b> <ul style="list-style-type: none"> <li>Visual notification for hearing impaired.</li> <li>Three stretch provisions.</li> </ul>	0 of 4 applicable mandatory same or similar. <b>Does not require:</b> <ul style="list-style-type: none"> <li>Smoke alarm in non-sleeping basement if assisted before 1993.</li> <li>Smoke alarms in multifamily housing.</li> <li>Battery backup or long-lasting batteries.</li> <li>Alternative visual notification for hearing impaired occupants.</li> <li>Any of the stretch provisions.</li> </ul>	•
Fire extinguisher - 3 mandatory - 1 stretch	0 of 3 applicable mandatory same or similar. Silent on fire extinguishers. <b>Does not require:</b> <ul style="list-style-type: none"> <li>Readily accessible Class ABC fire extinguisher in or near kitchen.</li> <li>One 10-pound extinguisher near kitchen.</li> <li>In multifamily housing, fire extinguishers in common areas on each floor.</li> </ul>	1 of 3 applicable mandatory same or similar. <b>Does not require:</b> <ul style="list-style-type: none"> <li>Readily accessible Class ABC fire extinguisher in or near kitchen in other than apartment houses.</li> <li>One 10-pound extinguisher near kitchen.</li> <li>In multifamily housing, fire extinguishers in common areas on each floor.</li> </ul>	•
Carbon monoxide alarm - 3 mandatory - 4 stretch	0 of 3 applicable mandatory same or similar. Silent on carbon monoxide alarms. <b>Does not require:</b> <ul style="list-style-type: none"> <li>Functioning alarm on each habitable floor and near every bedroom.</li> <li>Battery backup if hardwired or long-lasting batteries if not hardwired.</li> </ul>	0 of 3 applicable mandatory same or similar. Silent on carbon monoxide alarms. <b>Does not require:</b> <ul style="list-style-type: none"> <li>Functioning alarm on each habitable floor and near every bedroom.</li> <li>Battery backup if hardwired or long-lasting batteries if not hardwired.</li> <li>Visual notification for hearing impaired.</li> </ul>	•



	<ul style="list-style-type: none"> <li>• Visual notification for hearing impaired.</li> </ul>		
Walking surfaces - 3 mandatory - 2 stretch	2 of 3 applicable mandatory same or similar. <b>Does not require:</b> <ul style="list-style-type: none"> <li>• Nonskid surfaces on exterior stairway steps.</li> <li>• Either of two stretch provisions.</li> </ul>	0 of 3 applicable mandatory same or similar. <b>Does not require:</b> <ul style="list-style-type: none"> <li>• Nonskid surfaces on exterior stairway steps.</li> <li>• Structurally sound stairs, ramps, decks, porches, and balconies.</li> <li>• Adequate handrail.</li> <li>• Either of two stretch provisions.</li> </ul>	<ul style="list-style-type: none"> <li>•</li> </ul>
Guard - 3 mandatory - 0 stretch	1 of 3 applicable mandatory same or similar. <b>Does not require:</b> <ul style="list-style-type: none"> <li>• Fall prevention device on windows used for emergency exit.</li> </ul>	0 of 3 applicable mandatory same or similar. <b>Does not require:</b> <ul style="list-style-type: none"> <li>• Guards for 30" drops.</li> <li>• Fall prevention device on windows used for emergency exit.</li> <li>• Fall prevention device on windows where 72" above exterior grade and 36" interior floor.</li> </ul>	<ul style="list-style-type: none"> <li>•</li> </ul>
Chemical storage - 2 mandatory - 0 stretch	0 of 2 applicable mandatory same or similar. Silent on chemical storage. <b>Does not require:</b> <ul style="list-style-type: none"> <li>• Storage space for medicine and that household chemicals not be readily accessible to children.</li> <li>• Flammable and combustible liquids stored away from habitable spaces and ventilation system.</li> </ul>	0 of 2 applicable mandatory same or similar. Silent on chemical storage. <b>Does not require:</b> <ul style="list-style-type: none"> <li>• Storage space for medicine and that household chemicals not be readily accessible to children.</li> <li>• Flammable and combustible liquids stored away from habitable spaces and ventilation system.</li> </ul>	<ul style="list-style-type: none"> <li>•</li> </ul>
Pools, hot tubs, and other water features - 4 mandatory - 0 stretch	2 of 4 applicable mandatory same or similar. <b>Does not require:</b> <ul style="list-style-type: none"> <li>• Anti-entrapment devices on suction outlets.</li> <li>• Pool drains and drain covers clearly visible with second anti-entrapment device on blockable single drain.</li> </ul>	0 of 4 applicable mandatory same or similar. <b>Does not require:</b> <ul style="list-style-type: none"> <li>• Anti-entrapment devices on suction outlets.</li> <li>• Pool drains and drain covers clearly visible with second anti-entrapment device on blockable single drain.</li> <li>• Fence around pool if over 24" deep.</li> <li>• Luminaries with GFCI protection.</li> </ul>	<ul style="list-style-type: none"> <li>•</li> </ul>

Table 3: Comparison of Lighting and Electrical Systems Provisions			
NHHS	IPMC	Los Angeles City	
Summary - 13 mandatory - 7 stretch	45% same or similar - 9 of 13 mandatory - 0 of 7 of stretch	10% same or similar (0 NA) - 2 of 13 applicable mandatory - 0 of 7 applicable stretch	
Electrical system - 3 mandatory - 1 stretch	2 of 3 applicable mandatory same or similar. <b>Does not require:</b> <ul style="list-style-type: none"> <li>Separate service for each unit.</li> <li>One stretch provision.</li> </ul>	2 of 3 applicable mandatory same or similar. <b>Does not require:</b> <ul style="list-style-type: none"> <li>Separate service for each unit.</li> <li>One stretch provision.</li> </ul>	•
Outlets - 3 mandatory - 3 stretch	1 of 3 applicable mandatory same or similar. <b>Does not require:</b> <ul style="list-style-type: none"> <li>GFCI in bathroom unless new.</li> <li>GFCI in laundry, garage, crawl spaces, unfinished basement, and outdoors.</li> <li>Any of stretch provisions.</li> </ul>	0 of 3 applicable mandatory same or similar. <b>Does not require:</b> <ul style="list-style-type: none"> <li>GFCI in bathroom unless new.</li> <li>GFCI in laundry, garage, crawl spaces, unfinished basement, and outdoors.</li> <li>Two separate and remote grounded outlets.</li> <li>Any of stretch provisions.</li> </ul>	•
Natural lighting - 3 mandatory - 0 stretch	3 of 3 applicable mandatory same or similar.	0 of 3 applicable mandatory same or similar. <b>Does not require:</b> <ul style="list-style-type: none"> <li>Exterior window or skylight in every habitable room.</li> <li>If not ventilated, then exterior window for kitchen or bathroom.</li> </ul>	•
Artificial lighting - 4 mandatory - 3 stretch	3 of 4 applicable mandatory same or similar. <b>Does not require:</b> <ul style="list-style-type: none"> <li>Switches to be located conveniently for safe use.</li> <li>Any of stretch provisions.</li> </ul>	0 of 4 applicable mandatory same or similar. <b>Does not require:</b> <ul style="list-style-type: none"> <li>Switches to be located conveniently for safe use.</li> <li>Ceiling or wall light fixture in bathroom.</li> <li>Adequate lighting on public hall, exterior entry door, and stairway (two provisions).</li> <li>Any of stretch provisions.</li> </ul>	•

Table 4: Comparison of Thermal Comfort, Ventilation, and Energy Efficiency Provisions			
NHHS	IPMC	Los Angeles City	
Summary - 23 mandatory - 6 stretch	24% same or similar - 7 of 23 mandatory - 0 of 6 stretch	11% same or similar (1 NA) - 3 of 22 applicable mandatory - 0 of 6 applicable stretch	
Heating, ventilation, and air conditioning - 1 mandatory - 0 stretch	1 of 1 applicable mandatory same or similar but does not set 48-hour deadline to repair or find alternative safe supply.	1 of 1 applicable mandatory same or similar but does not set 48-hour deadline to repair or find alternative safe supply.	
Heating system - 7 mandatory - 4 stretch	3 of 7 applicable mandatory same or similar. <b>Does not require:</b> <ul style="list-style-type: none"> <li>• In rentals, set 78° F maximum temperature during heating season.</li> <li>• For forced-air heat, set standards for filter or require annual replacement.</li> <li>• For steam or hot water heating systems, protective covers on hot surfaces.</li> <li>• For wood stoves, compliance with federal standards or providing clearances or heat shields between combustibles.</li> <li>• Any stretch provisions.</li> </ul>	1 of 6 applicable mandatory same or similar. <b>Does not require:</b> <ul style="list-style-type: none"> <li>• In rentals, set 78° F maximum temperature during heating season.</li> <li>• For forced-air heat, set standards for filter or require annual replacement.</li> <li>• For steam or hot water heating systems, protective covers on hot surfaces.</li> <li>• For wood stoves, compliance with federal standards or providing clearances or heat shields between combustibles.</li> <li>• Combustion air must be vented outside considers with NFPA standards.</li> <li>• Any stretch provisions.</li> </ul>	•
Ventilation - 6 mandatory - 1 stretch	2 of 6 applicable mandatory same or similar. <b>Does not require:</b> <ul style="list-style-type: none"> <li>• Capability to remove moisture-laden air.</li> <li>• Ventilation to meet standards in ASHRAE 62.2.</li> <li>• Rigid or semirigid metal duct for clothes dryer exhaust.</li> <li>• Supply air for forced-air system to be from source other than basement.</li> <li>• One stretch provision.</li> </ul>	0 of 6 applicable mandatory same or similar. <b>Does not require:</b> <ul style="list-style-type: none"> <li>• Capability to remove moisture-laden air.</li> <li>• Ventilation to meet standards in ASHRAE 62.2.</li> <li>• Rigid or semirigid metal duct for clothes dryer exhaust.</li> <li>• Supply air for forced-air system to be from source other than basement.</li> <li>• Ban on discharge of gas or particulate wastes and requirement for pest-proofing screens on vent pipe.</li> <li>• Exhaust air from bathroom, kitchen, clothes dryer, or basement vented outside.</li> <li>• One stretch provision.</li> </ul>	•

<p>Air sealing - 9 mandatory - 1 stretch</p>	<p>1 of 9 applicable mandatory same or similar. Silent on fire extinguishers. <b>Does not require:</b></p> <ul style="list-style-type: none"> <li>• Sealing openings to limit uncontrolled air movement.</li> <li>• Pads, sweeps, weather stripping use to minimize air leaks.</li> <li>• Sealing openings to attached garage.</li> <li>• Door to garage with automatic closing mechanism and weather-stripping.</li> <li>• Ban on door or window from garage to sleeping area.</li> <li>• Sealed and insulated ductwork for forced-air system in attached garage</li> <li>• Ban on supply or return vents in a garage serving habitable spaces.</li> <li>• Sealing between dwelling units in multifamily.</li> <li>• One stretch provision.</li> </ul>	<p>1 of 9 applicable mandatory same or similar. Silent on fire extinguishers. <b>Does not require:</b></p> <ul style="list-style-type: none"> <li>• Sealing openings to limit uncontrolled air movement.</li> <li>• Pads, sweeps, weather stripping use to minimize air leaks.</li> <li>• Sealing openings to attached garage.</li> <li>• Door to garage with automatic closing mechanism and weather-stripping.</li> <li>• Ban on door or window from garage to sleeping area.</li> <li>• Sealed and insulated ductwork for forced air system in attached garage</li> <li>• Ban on supply or return vents in a garage serving habitable spaces.</li> <li>• Sealing between dwelling units in multifamily.</li> <li>• One stretch provision.</li> </ul>	<ul style="list-style-type: none"> <li>•</li> </ul>
--	---	---	---

Table 5: Comparison of Moisture Control, Solid Waste, and Pest Management Provisions			
NHHS	IPMC	Los Angeles City	
Summary - 24 mandatory - 5 stretch	38% same or similar - 10 of 24 mandatory - 3 of 5 stretch	17% same or similar (0 NA) - 5 of 24 applicable mandatory - 0 of 5 applicable stretch	
Moisture - 10 mandatory - 4 stretch	4 of 10 applicable mandatory same or similar. <b>Does not require:</b> <ul style="list-style-type: none"> <li>Ban on visible mold growth and persistent excessive dampness or moisture on interior and exterior surfaces.</li> <li>Cleanup, drying, and repair of building materials discolored or deteriorated by mold or mildew or causing moldy or earthy odor.</li> <li>Repair and removal of moldy material consistent with published guidance.</li> <li>Investigation and correction of underlying cause of dampness or moldy odors.</li> <li>Insulation of cold plumbing and HVAC surfaces to prevent condensation.</li> <li>Crawl spaces to be free of high-moisture conditions or sealed from dwelling areas where the space is not sealed and insulated from outdoors.</li> <li>Two stretch provisions.</li> </ul>	2 of 10 applicable mandatory same or similar. <b>Does not require:</b> <ul style="list-style-type: none"> <li>Ban on visible mold growth and persistent excessive dampness or moisture on interior and exterior surfaces.</li> <li>Cleanup, drying, and repair of building materials discolored or deteriorated by mold or mildew or causing moldy or earthy odor.</li> <li>Repair and removal of moldy material consistent with published guidance.</li> <li>Investigation and correction of underlying cause of dampness or moldy odors.</li> <li>Insulation of cold plumbing and HVAC surfaces to prevent condensation.</li> <li>Crawl spaces to be free of high-moisture conditions or sealed from dwelling areas where the space is not sealed and insulated from outdoors.</li> <li>Premises grades to prevent erosion or accumulation of water.</li> <li>Wood surfaces protective from decay and weep holes in brickwork left open.</li> <li>Any stretch provisions.</li> </ul>	•
Solid waste - 3 mandatory - 1 stretch	1 of 3 applicable mandatory same or similar. <b>Does not require:</b> <ul style="list-style-type: none"> <li>Sufficient outside storage of trash and recyclable to hold materials between collections (two provisions).</li> <li>One stretch provision.</li> </ul>	1 of 3 applicable mandatory same or similar. <b>Does not require:</b> <ul style="list-style-type: none"> <li>Sufficient outside storage of trash and recyclable to hold materials between collections (two provisions).</li> <li>One stretch provision.</li> </ul>	•

Pest management - 11 mandatory - 0 stretch	5 of 11 applicable mandatory same or similar. <b>Does not require:</b> <ul style="list-style-type: none"> <li>• Use of trained IPM-trained pest management professional in multifamily housing.</li> <li>• Inspection for pests.</li> <li>• Ban on accumulation of material for rodent harborage in or about dwelling and premises.</li> <li>• Trees, shrubs, and plantings no closer than 6” of dwelling.</li> <li>• Sealing of holes and joints with low-VOC caulk or closed-cell insulation.</li> <li>• Ban on foggers and organophosphates.</li> </ul>	2 of 11 applicable mandatory same or similar. <b>Does not require:</b> <ul style="list-style-type: none"> <li>• Use of trained IPM-trained pest management professional in multifamily housing.</li> <li>• Inspection for pests.</li> <li>• Ban on accumulation of material for rodent harborage in or about dwelling and premises.</li> <li>• Trees, shrubs, and plantings no closer than 6” of dwelling.</li> <li>• Sealing of holes and joints with low-VOC caulk or closed-cell insulation.</li> <li>• Ban on foggers and organophosphates.</li> <li>• Ban on accumulation of water.</li> <li>• No holes or joints in exterior 1/8” or greater.</li> <li>• Use of integrated pest management (IPM).</li> </ul>	<ul style="list-style-type: none"> <li>•</li> </ul>
--	--	--	---

Table 6: Comparison of Chemical and Radiological Agents Provisions			
NHHS	IPMC	Los Angeles City	
Summary - 21 mandatory - 4 stretch	4% same or similar - 1 of 21 mandatory - 0 of 4 stretch.	16% same or similar - 4 of 21 applicable mandatory - 0 of 4 applicable stretch	
General - 1 mandatory - 0 stretch	0 of 1 applicable mandatory same or similar. <b>Does not require:</b> <ul style="list-style-type: none"> <li>Containment, storage, removal, and mitigation of chemical and radiological agents in a safe and healthy manner consistent with federal, state, and local laws and regulations.</li> </ul>	0 of 1 applicable mandatory same or similar. <b>Does not require:</b> <ul style="list-style-type: none"> <li>Containment, storage, removal, and mitigation of chemical and radiological agents in a safe and healthy manner consistent with federal, state, and local laws and regulations.</li> </ul>	•
Lead-based paint - 5 mandatory - 1 stretch	0 of 5 applicable mandatory same or similar. Silent on lead-based paint. <b>Does not require:</b> <ul style="list-style-type: none"> <li>Levels of lead deemed hazardous by federal government to be taken care of properly.</li> <li>Repair of deteriorated paint using lead-safe work practices.</li> <li>Compliance with federal Renovation, Repair, and Painting rule and dust-clearance testing at conclusion of renovation work.</li> <li>Ban on particularly dangerous work practices.</li> <li>Ban use of lead-based paint.</li> <li>Stretch provision.</li> </ul>	4 of 5 applicable mandatory same or similar. <b>Does not require:</b> <ul style="list-style-type: none"> <li>Ban use of lead-based paint.</li> </ul>	
Asbestos - 4 mandatory - 0 stretch	0 of 4 applicable mandatory same or similar. <b>Does not require:</b> <ul style="list-style-type: none"> <li>Maintenance of asbestos-containing materials in nonfriable condition.</li> <li>Abatement of asbestos before any activity that disturbs it.</li> <li>Abatement of friable asbestos using licensed asbestos professional.</li> <li>Removal and disposal of asbestos in compliance with federal, state, and local requirements.</li> </ul>	0 of 4 applicable mandatory same or similar. <b>Does not require:</b> <ul style="list-style-type: none"> <li>Maintenance of asbestos-containing materials in nonfriable condition.</li> <li>Abatement of asbestos before any activity that disturbs it.</li> <li>Abatement of friable asbestos using licensed asbestos professional.</li> <li>Removal and disposal of asbestos in compliance with federal, state, and local requirements.</li> </ul>	•
Toxic substances in manufactured building materials - 2 mandatory - 0 stretch	0 of 2 applicable mandatory same or similar. <b>Does not require:</b> <ul style="list-style-type: none"> <li>Use of low-formaldehyde wood products that comply with federal law.</li> <li>Use of building materials with no halogenated flame retardants and low-VOC emissions.</li> </ul>	0 of 2 applicable mandatory same or similar. <b>Does not require:</b> <ul style="list-style-type: none"> <li>Use of low-formaldehyde wood products that comply with federal law.</li> <li>Use of building materials with no halogenated flame retardants and low-VOC emissions.</li> </ul>	•

Radon - 1 mandatory - 1 stretch	0 of 1 applicable mandatory same or similar. Silent on radon. <b>Does not require:</b> <ul style="list-style-type: none"> <li>Radon to be tested or high levels to be mitigated.</li> <li>Stretch provision.</li> </ul>	0 of 1 applicable mandatory same or similar. Silent on radon. <b>Does not require:</b> <ul style="list-style-type: none"> <li>Radon to be tested or high levels to be mitigated.</li> <li>Stretch provision.</li> </ul>	•
Pesticides - 3 mandatory - 0 stretch	1 of 3 applicable mandatory same or similar. <b>Does not require:</b> <ul style="list-style-type: none"> <li>Use of least toxic pesticides with demonstrated efficacy for pest using IPM.</li> <li>Proper storage and disposal of pesticides.</li> </ul>	0 of 3 applicable mandatory same or similar. <b>Does not require:</b> <ul style="list-style-type: none"> <li>Use of least toxic pesticides with demonstrated efficacy for pest using IPM.</li> <li>Proper storage and disposal of pesticides.</li> </ul> Compliance with manufacturer specifications and immediate mitigation of misuse.	•
Methamphetamine - 1 mandatory - 0 stretch	0 of 1 applicable mandatory same or similar. <b>Does not require:</b> <ul style="list-style-type: none"> <li>Certification as safe by approved testing method from hazardous materials used in meth manufacturers prior to occupancy.</li> </ul>	0 of 1 applicable mandatory same or similar. <b>Does not require:</b> Certification as safe by approved testing method from hazardous materials used in meth manufacturers prior to occupancy.	•
Smoke in multifamily housing - 4 mandatory - 2 stretch	0 of 4 applicable mandatory same or similar. Silent on smoking. <b>Does not require:</b> <ul style="list-style-type: none"> <li>Ban in indoor common area of multifamily housing.</li> <li>Ban within 25 feet of entrances, air intakes, and openable windows.</li> <li>Notice to tenants of smoking policy.</li> <li>Exemption from early termination penalties for tenants leaving early dues to smoke incursion or smoke-free policy.</li> <li>Any stretch provisions.</li> </ul>	0 of 4 applicable mandatory same or similar. Silent on smoking. <b>Does not require:</b> <ul style="list-style-type: none"> <li>Ban in indoor common area of multifamily housing.</li> <li>Ban within 25 feet of entrances, air intakes, and openable windows.</li> <li>Notice to tenants of smoking policy.</li> <li>Exemption from early termination penalties for tenants leaving early dues to smoke incursion or smoke-free policy.</li> </ul> Any stretch provisions.	•