

**INITIAL STATEMENT OF REASONS  
FOR  
PROPOSED BUILDING STANDARDS  
OF THE  
DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT  
REGARDING THE ADOPTION BY REFERENCE OF THE  
2015 EDITION OF THE INTERNATIONAL RESIDENTIAL CODE  
WITH PROPOSED AMENDMENTS INTO THE 2016 CALIFORNIA RESIDENTIAL CODE  
CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 2.5**

**(HCD 02/15)**

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The Administrative Procedure Act (APA) requires that an Initial Statement of Reasons be available to the public upon request when rulemaking action is being undertaken. The following information required by the APA pertains to this particular rulemaking action:

**STATEMENT OF SPECIFIC PURPOSE, PROBLEM, RATIONALE and BENEFITS:**

(Government Code Section 11346.2(b)(1) requires a statement of specific purpose of each adoption, amendment, or repeal and the problem the agency intends to address and the rationale for the determination by the agency that each adoption, amendment, or repeal is reasonably necessary to carry out the purpose and address the problem the agency intends to address for which it is proposed. The statement shall enumerate the benefits anticipated from the regulatory action, including the benefits or goals provided in the authorizing statute.)

**1) The Public Problem, Administrative Requirement, or Other Circumstance Addressed.**

**Administrative Requirement:** Health and Safety Code Section 17922 directs the Department of Housing and Community Development (HCD) to adopt the most recent edition of the model code, which, in this case, is the International Residential Code published by the International Code Council (ICC).

**2) Specific Purpose**

The California Building Standards Commission (CBSC) selected the 2015 International Residential Code as the model code to be referenced in Title 24, Part 2.5 of the California Code of Regulations (CCR) for the 2015 Triennial Code Adoption Cycle.

**The specific purpose** of these regulations is to adopt by reference the 2015 edition of the International Residential Code, with California Amendments, into the 2016 California Residential Code (CRC), Title 24, Part 2.5, of the California Code of Regulations (CCR) for the following programs:

- a) **State Housing Law:** relative to residential occupancies, buildings or structures accessory thereto.
- b) **Employee Housing Act:** relative to any building or structure or outdoors on premises or property in accordance with Health and Safety Code Section 17040.
- c) **Mobilehome Parks or Special Occupancy Parks:** relative to the use of building systems in or on any permanent buildings, accessory buildings, and structures under the ownership and control of the park operator within the park in accordance with Health and Safety Code Section 18300 for mobilehome parks, and Section 18865 for special occupancy parks.
- d) **Factory-Built Housing Law:** relative to residential buildings, dwellings or portions thereof, or building components, or manufactured assemblies in accordance with Health and Safety Code Section 19990.

**3) Rationale for Necessity**

The proposed building standards update the 2015 IRC and are intended to provide clarity, specificity and direction to the code user and to implement and make specific existing state laws. California amendments also include some amendments brought forward from the 2013 California Residential Code.

If the 2015 International Residential Code becomes adopted in its entirety without being adopted by the CBSC, such automatic adoption would cause considerable confusion because California Amendments, also known as "State Amendments", are necessary modifications to the model code language to ensure that the 2016 California Residential Code is consistent with state law.

**It is necessary to propose the adoption** of some sections of the 2015 International Residential Code with amendments to the model code language to incorporate state law provisions and to accommodate unique California conditions.

**It is necessary to not propose the adoption** of some sections of the 2015 International Residential Code as they would conflict with existing state law provisions and not accommodate unique California conditions.

**It is necessary to bring forward** previously existing California Amendments. Some existing amendments will be brought forward without any changes and will represent no change in regulatory effect from the 2013 International Residential Code. Other previously existing California Amendments will be changed as explained below.

**Specific Proposed Regulatory Actions:**

HCD proposes to adopt by reference the 2015 edition of the International Residential Code with amendments into the 2016 California Residential Code. The rationale for each amendment is listed below.

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**1. CHAPTER 1  
SCOPE AND ADMINISTRATION  
DIVISION I  
CALIFORNIA ADMINISTRATION**

**SECTION 1.1 – GENERAL**

**Section: 1.1.1 Title**

**Rationale:** HCD proposes to bring forward the above referenced existing California amendment from the 2013 California Residential Code into the 2016 California Residential Code with modification. The modification reflects the adopted model code as the 2015 International Residential Code. There is no intended change in regulatory effect.

**Section: 1.1.2 Purpose**

**Rationale:** HCD proposes to bring forward the above referenced existing California amendment from the 2013 California Residential Code into the 2016 California Residential Code without modification.

**Section: 1.1.3 Scope**

**Rationale:** HCD proposes to bring forward the above referenced existing California amendment from the 2013 California Residential Code into the 2016 California Residential Code without modification.

**Section: 1.1.3.1 Classification**

**Rationale:** HCD proposes to bring forward the above referenced existing California amendment from the 2013 California Residential Code into the 2016 California Residential Code without modification.

**Section: 1.1.3.1.1 Residential Group R**

**Rationale:** HCD proposes to bring forward the above referenced existing California amendment from the 2013 California Residential Code into the 2016 California Residential Code with modification. HCD proposes to change the reference of Section R325 and R326 to Section R335 and R336 respectively. These sections from the 2013 California Residential Code are proposed to be renumbered in coordination with other state agencies to allow for relocation of other California amendments. There is no intended change in regulatory effect.

**Sections: 1.1.3.1.2 Utility and Miscellaneous Group U**

**1.1.3.2 Regulated buildings, structures, and applications**

**Rationale:** HCD proposes to bring forward the above referenced existing California amendments from the 2013 California Residential Code into the 2016 California Residential Code with modification. In Section 1.1.3.1.2 HCD proposes to change the height of fences from 6 feet to 7 feet to align with the model code. The modification in Section

1.1.3.2 adds “efficiency dwelling unit” to the list of applicable buildings regulated by this code. This amendment is consistent with the California Building Code. The proposed amendment provides clarity and consistency to the code users and enforcing agencies. There is no intended change in regulatory effect.

- Sections:**
- 1.1.4 Appendices**
  - 1.1.5 Referenced codes**
  - 1.1.6 Nonbuilding standards, orders and regulations**
  - 1.1.7 Order of precedence and use**
    - 1.1.7.1 Differences**
    - 1.1.7.2 Specific provisions**
    - 1.1.7.3 Conflicts**

**Rationale:** HCD proposes to bring forward the above referenced existing California amendment from the 2013 California Residential Code into the 2016 California Residential Code without modification.

**Section: 1.1.7.3.1 Detached one- and two-family dwellings**

**Rationale:** HCD proposes to bring forward the above referenced existing California amendments from the 2013 California Residential Code into the 2016 California Residential Code with modification. HCD proposes to add “efficiency dwelling units” to the list of what can be built to the California Residential Code and are not required to comply with the California Building Code. HCD also proposes to add language to clarify that those residential buildings as identified in the express terms and scope of the CRC may be built to the CRC or the CBC but not both, unless directed to do so by the CRC. This amendment is also proposed in the CBC for consistency. HCD also proposes nonsubstantive editorial changes regarding building height, and the reference to the California Building Code. There is no intended change in regulatory effect.

**Section: 1.1.8 City, county, or city and county amendments, additions or deletions**

**Rationale:** HCD proposes to bring forward the above referenced existing California amendment from the 2013 California Residential Code into the 2016 California Residential Code without modification.

**Section: 1.1.8.1 Findings and filings**

**Rationale:** HCD proposes to bring forward the above referenced existing California amendment from the 2013 California Residential Code into the 2016 California Residential Code with a modification to correct the address of the Department of Housing and Community Development. There is no intended change in regulatory effect.

**Section: 1.1.9 Effective date of this code**

**Rationale:** HCD proposes to bring forward the above referenced existing California amendment from the 2013 California Residential Code into the 2016 California Residential Code without modification.

**Section: 1.1.10 Availability of codes**

**Rationale:** HCD proposes to bring forward the above referenced existing California amendment from the 2013 California Residential Code into the 2016 California Residential Code with modification. HCD proposes to make an editorial correction to Health and Safety Code Section 18942 (d) (1) and (2). The reference should be to Health and Safety Code Section 18942 (e) (1) and (2). This change is necessary due to legislative changes to Health and Safety Code Section 18942. There is no intended change in regulatory effect.

**Section: 1.1.11 Format**

**Rationale:** HCD proposes to bring forward the above referenced existing California amendment from the 2013 California Residential Code into the 2016 California Residential Code without modification.

**Section: 1.1.12 Validity**

**Rationale:** HCD proposes to bring forward the above referenced existing California amendment from the 2013 California Residential Code into the 2016 California Residential Code without modification.

**SECTION 1.8 - DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT (HCD)**

**Section: 1.8.1 Purpose**

**Rationale:** HCD proposes to bring forward the above referenced existing California amendment from the 2013 California Residential Code into the 2016 California Residential Code without modification.

**Section: 1.8.2 AUTHORITY AND ABBREVIATIONS**

- Sections:**
- 1.8.2.1 General**
    - 1.8.2.1.1 Housing construction**

#### **1.8.2.1.2 Housing accessibility**

#### **1.8.2.1.3 Permanent buildings in mobilehome parks and special occupancy parks**

**Rationale:** HCD proposes to bring forward the above referenced existing California amendments from the 2013 California Residential Code into the 2016 California Residential Code with a modification to change “apartment houses” to “apartments” to be consistent with the California Building Code. The term “apartment house” was defined and used last in the 2001 CBC, when the Uniform Building Code was used as the model building code in California. The term “apartment house” has not been used (except in Chapter 1) in the California Building Code since 2007, when the International Building Code became the new model code in California. The term currently used in the CBC is “apartment” or “apartments.” HCD additionally proposes to change references to the location of defined terms from “Chapter 11A” to now refer to “Chapter 2” as the model code format has changed and now all defined terms are located in Chapter 2. HCD is also proposing editorial modifications related to capitalization of defined terms and the abbreviation (CBC) of the California Building Code. There is no intended change in regulatory effect.

### **Section: 1.8.3 - LOCAL ENFORCING AGENCY**

- Sections:**
- 1.8.3.1 Duties and powers**
  - 1.8.3.2 Laws, rules and regulations**
    - 1.8.3.2.1 State Housing Law**
    - 1.8.3.2.2 Mobilehome Parks Act**
    - 1.8.3.2.3 Special Occupancy Parks Act**
    - 1.8.3.2.4 Employee Housing Act**
    - 1.8.3.2.5 Factory-Built Housing Law**

**Rationale:** HCD proposes to bring forward the above referenced existing California amendments from the 2013 California Residential Code into the 2016 California Residential Code with a modification to change “apartment houses” to “apartments” and add “condominiums” to the list to be consistent with the California Building Code. The term “apartment house” is not used in the International Building Code or the California Building Code. The terms currently used are “apartment”, “apartments” and/or “condominiums”. There is no intended change in regulatory effect.

### **Section: 1.8.4 - PERMITS, FEES, APPLICATIONS AND INSPECTIONS**

- Sections:**
- 1.8.4.1 Permits**
  - 1.8.4.2 Fees**
  - 1.8.4.3 Plan review and time limitations**
    - 1.8.4.3.1 Retention of plans**
  - 1.8.4.4 Inspections**

**Rationale:** HCD proposes to bring forward the above referenced existing California amendments from the 2013 California Residential Code into the 2016 California Residential Code with a modification. HCD proposes to change the reference to “Section 1351” to now read “Section 4100”. This modification is necessary due to changes and renumbering in the Civil Code. There is no intended change in regulatory effect.

### **Section: 1.8.5 - RIGHT OF ENTRY FOR ENFORCEMENT**

#### **Section: 1.8.5.1 General**

**Rationale:** HCD proposes to bring forward the above referenced existing California amendment from the 2013 California Residential Code into the 2016 California Residential Code without modification.

### **Section: 1.8.6 - LOCAL MODIFICATION BY ORDINANCE OR REGULATION**

- Sections:**
- 1.8.6.1 General**
  - 1.8.6.2 Findings, filings, and rejections of local modifications**

**Rationale:** HCD proposes to bring forward the above referenced existing California amendments from the 2013 California Residential Code into the 2016 California Residential Code without modification.

### **Section: 1.8.7 - ALTERNATE MATERIALS, DESIGNS, TESTS AND METHODS OF CONSTRUCTION**

- Sections:**
- 1.8.7.1 General**
  - 1.8.7.2 Local building departments**
    - 1.8.7.2.1 Approval of alternates**
  - 1.8.7.3 Department of Housing and Community Development**

**Rationale:** HCD proposes to bring forward the above referenced existing California amendments from the 2013 California Residential Code into the 2016 California Residential Code with modification. HCD proposes to amend the term “apartment house” to “apartments” and add “condominiums” to the list to be consistent with the California Building Code. HCD also proposes to change the types of dwellings listed from singular to plural and also proposes editorial modifications related to capitalization of defined terms. HCD additionally proposes to change references to the location of defined terms from “Chapter 11A” to now refer to “Chapter 2” as the model code format has changed, and now all defined terms are located in Chapter 2. HCD is also proposing editorial modifications related to capitalization of defined terms and the abbreviation (CBC) of the California Building Code. There is no intended change in regulatory effect.

**Section: 1.8.8 - APPEALS BOARD**

**Sections:** 1.8.8.1 General  
1.8.8.2 Definitions  
1.8.8.3 Appeals

**Rationale:** HCD proposes to bring forward the above referenced existing California amendments from the 2013 California Residential Code into the 2016 California Residential Code with modification. HCD proposes to add “construction” to the text which addresses the authority of local jurisdictions to hear appeals. Health and Safety Code Section 17920.6 *Local Appeals Board* includes the building (construction) requirements as a matter in which the appeals board may hear and render decisions. There is no intended change in regulatory effect.

**Section: 1.8.9 - UNSAFE BUILDINGS OR STRUCTURES**

**Sections:** 1.8.9.1 Authority to enforce  
1.8.9.2 Actions and proceedings

**Rationale:** HCD proposes to bring forward the above referenced existing California amendments from the 2013 California Residential Code into the 2016 California Residential Code with modification. Section 1.8.9.1 Item # 5 contains a publishing error. Number 5 should read “Section 1.8.3.2.5”. The number “3” was inadvertently omitted by the publisher in the 2013 California Residential Code. There is no intended change in regulatory effect.

**Section: 1.8.10 - OTHER BUILDING REGULATIONS**

**Sections:** 1.8.10.1 Existing structures  
1.8.10.2 Moved structures

**Rationale:** HCD proposes to bring forward the above referenced existing California amendments from the 2013 California Residential Code into the 2016 California Residential Code with modification. HCD proposes to amend the references to Chapter 34 of the California Building Code (CBC), to the California Existing Building Code (CEBC). The regulations for existing buildings located in Chapter 34 of the 2012 International Building Code (IBC) have been relocated to the 2015 International Existing Building Code (IEBC). Due to these changes in the model code, HCD proposes in separate action to relocate amendments from Chapter 34 of the 2013 CBC into the 2016 CEBC. There is no intended change in regulatory effect.

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**2. CHAPTER 1  
DIVISION II  
ADMINISTRATION**

**Division II is not adopted by the Department of Housing and Community Development except where specifically indicated.**

**Rationale:** HCD proposes to continue adoption of Chapter 2 of the International Residential Code with amendments. Division II has been added to the existing model code section. As amended, Chapter 2, Division II is consistent with the format currently proposed in the other parts of the California Building Standards Code.

**SECTION R105 PERMITS**

**Section: R105.2 Work exempt from permit**

**Rationale:** HCD proposes to adopt the above referenced section from the 2015 International Residential Code and bring forward the existing California amendment from the 2013 California Residential Code into the 2016 California Residential Code without modification. The provision of Item 1, “Work exempt from permit,” under the 2015 IRC,



**Sections: R109.1.5.1 Fire-resistance-rated construction inspection  
R109.1.5.2 Special Inspections**

**Rationale:** HCD proposes to bring forward the above referenced existing California amendments from the 2013 California Residential Code into the 2016 California Residential Code without modification. There is no intended change in regulatory effect from the 2013 CRC.

**Sections: R109.1.6 Final inspection  
R109.1.6.1 Elevation documentation**

**Rationale:** HCD proposes to adopt the above referenced sections from the 2015 International Residential Code into the 2016 California Residential Code without amendment. The above sections are referenced in other adopted sections of the IRC, used as part of the local agency permitting and inspection process, and are also required for meeting mandatory measures in the California Green Building Standards Code, Chapter 4.

**Section: R109.1.6.2 Operation and maintenance manual**

**Rationale:** HCD proposes to bring forward the above referenced existing California amendments from the 2013 California Residential Code into the 2016 California Residential Code without modification. During the 2013 Code Adoption Cycle pointers to mandatory CALGreen requirements were proposed for inclusion into the code to enhance user convenience and familiarity. This pointer may also serve as a potential location for the complete CALGreen requirement in the event that HCD makes the decision in a future rulemaking to discontinue Part 11, CALGreen and incorporate its requirements into other parts of Title 24, the California Building Standards Code.

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**3. CHAPTER 2  
DEFINITIONS**

HCD proposes to adopt Chapter 2 from the 2015 International Residential Code with new amendments, and bring forward California existing amendments from the 2013 California Residential Code into the 2016 California Residential Code with modification, as indicated below:

**SECTION R201 GENERAL**

**Section: R201.3 Terms defined in other codes**

**Rationale:** HCD proposes to adopt the above referenced section and bring forward existing California amendments from the 2013 California Residential Code into the 2016 California Residential Code without modification. The California amendment to Section R201.3 deletes references to the International Codes that California does not adopt.

**SECTION R202 DEFINITIONS**

***(Existing California amendments brought forward from the 2013 California Residential Code for adoption into the 2016 California Residential Code and new California amendments proposed for adoption into the 2016 California Residential Code):***

**ALTERATION**

**APPROVED**

**APPROVED AGENCY**

**APPROVED LISTING AGENCY**

**APPROVED TESTING AGENCY**

**BUILDING**

**Rationale:** HCD proposes to bring forward the above referenced definitions from the 2013 California Residential Code into the 2016 California Residential Code without modification.

**CLIMATE ZONES**

**Rationale:** HCD proposes to adopt this new definition as a California amendment into the 2016 California Residential Code. The definition is based on the definition of Climate Zones in the California Energy Code and is proposed for adoption to differentiate between the model code climate zones (1-8) referenced in the International Codes and the 16 climate zones unique to California. There is no intended change in regulatory effect.

**DEPARTMENT**

**Rationale:** HCD proposes to bring forward the above referenced definition from the 2013 California Residential Code into the 2016 California Residential Code without modification.

## **DUCT SYSTEM**

**Rationale:** HCD proposes to amend the model code definition from the 2015 International Residential Code and adopt this definition as a California amendment into the 2016 California Residential Code. The amended definition is based on the definition of Duct System in the California Energy Code. This amended definition is necessary due to the references in the model code definition to sections and chapters not adopted by HCD. There is no intended change in regulatory effect.

## **EFFICIENCY DWELLING UNIT ENFORCEMENT ENFORCING AGENCY ENFORCEMENT AGENCY FAMILY**

**Rationale:** HCD proposes to bring forward the above referenced definitions from the 2013 California Residential Code into the 2016 California Residential Code without modification.

## **FENESTRATION**

**Rationale:** HCD proposes to bring forward the above referenced definition from the 2013 California Residential Code into the 2016 California Residential Code with modification. The proposed modification deletes unnecessary text for consistency with other California codes. There is no intended change in regulatory effect.

## **GUARD OR GUARDRAIL INSULATING SHEATHING LABELED LIMITED-DENSITY OWNER-BUILT RURAL DWELLINGS LISTED**

**Rationale:** HCD proposes to bring forward the above referenced definitions from the 2013 California Residential Code into the 2016 California Residential Code without modification.

## **LISTING AGENCY**

**Rationale:** HCD proposes to correct the incorrect spelling of “Listing Agency” as it was inadvertently published as “Listed Agency” in the 2013 CRC. HCD also proposes to add a “HCD 1 and 2” banner to this existing California amendment for consistency with the California Building Code. There is no intended change in regulatory effect from the 2013 California Residential Code.

## **LODGING HOUSE**

**Rationale:** HCD proposes to add clarifying language to this existing California amendment which specifies that lodging houses are buildings or portions of buildings with not more than five (5) guestrooms and the lodging house is occupied by the proprietor of the lodging house. HCD proposes this modification for consistency with the California Building Code which also contains this proposed modification to an existing amendment for clarification. There is no intended change in regulatory effect from the 2013 California Residential Code.

## **MASONRY UNIT PASSIVE SOLAR ENERGY COLLECTOR REPAIR RISER SUNROOM TESTING AGENCY VENTILATION**

**Rationale:** HCD proposes to bring forward the above referenced definitions from the 2013 California Residential Code into the 2016 California Residential Code without modification.

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## **4. CHAPTER 2 DEFINITIONS**

### **SECTION R202 DEFINITIONS (Non-adopted)**

HCD proposes to delete and not adopt the following definitions from the 2015 International Residential Code as indicated below.

**Note:** The following terms will not be printed in the 2016 California Residential Code unless adopted by the Office of the State Fire Marshal.

ACCESSIBLE  
ACCESSIBLE, READILY  
ACCESSORY STRUCTURE  
AIR ADMITTANCE VALVE  
AIR BARRIER  
AIR BREAK (DRAINAGE SYSTEM)  
AIR CIRCULATION, FORCED  
AIR-CONDITIONING SYSTEM  
AIR GAP, DRAINAGE SYSTEM  
AIR GAP, WATER-DISTRIBUTION SYSTEM  
ANTISIPHON  
APPLIANCE  
BACKFLOW, DRAINAGE  
BACKFLOW PREVENTER  
BACKFLOW PREVENTER, REDUCED-PRESSURE ZONE TYPE  
BACKFLOW, WATER DISTRIBUTION  
BACKPRESSURE  
BACKPRESSURE, LOW HEAD  
BACKSIPHONAGE  
BACKWATER VALVE  
BATHROOM GROUP  
BEND  
BOILER  
BRANCH  
BRANCH, FIXTURE  
BRANCH, HORIZONTAL  
BRANCH INTERVAL  
BRANCH, MAIN  
BRANCH, VENT  
BTU/H  
BUILDING DRAIN  
BUILDING SEWER  
CHIMNEY CONNECTOR  
CHIMNEY TYPES  
CIRCUIT VENT  
CIRCULATING HOT WATER SYSTEM  
CLEANOUT  
CLIMATE ZONE  
COLLECTION PIPE  
COMBINATION WASTE AND VENT SYSTEM  
COMMERCIAL BUILDING  
COMMON VENT  
CONDENSING APPLIANCE  
CONDITIONED AREA  
CONTAMINATION  
CONTINUOUS WASTE  
CONTROL, LIMIT  
CONTROL, PRIMARY SAFETY  
CONVECTOR  
CROSS CONNECTION  
CURTAIN WALL  
DAMPER, VOLUME  
DEMAND RECIRCULATION WATER SYSTEM  
DEVELOPED LENGTH  
DILUTION AIR  
DIRECT SYSTEM  
DIRECT-VENT APPLIANCE



INDIVIDUAL SEWAGE DISPOSAL SYSTEM  
INDIVIDUAL VENT  
INDIVIDUAL WATER SUPPLY  
INSULATED SIDING  
MACERATING TOILET SYSTEMS  
MAIN  
MAIN SEWER  
MANIFOLD WATER DISTRIBUTION SYSTEMS  
MANUFACTURED HOME  
MASS WALL  
MECHANICAL DRAFT SYSTEM  
    Forced-draft venting system  
    Induced draft venting system  
    Power venting system  
MECHANICAL EXHAUST SYSTEM  
MECHANICAL JOINT  
MECHANICAL SYSTEM  
NATURAL DRAFT SYSTEM  
OFFSET  
ON-SITE NONPOTABLE WATER REUSE SYSTEMS  
PITCH  
PLUMBING  
PLUMBING APPURTENANCE  
POLLUTION  
PORTABLE-FUEL-CELL APPLIANCE  
POTABLE WATER  
PRESSURE-RELIEF VALVE  
PUBLIC SEWER  
PUBLIC WATER MAIN  
PURGE  
QUICK-CLOSING VALVE  
R-VALUE, THERMAL RESISTANCE  
RATED DESIGN  
RECEPTOR  
RECLAIMED WATER  
REFLECTIVE DUCT INSULATION  
REFRIGERANT  
REFRIGERANT COMPRESSOR  
REFRIGERATING SYSTEM  
RELIEF VALVE, VACUUM  
RETURN AIR  
ROOM HEATER  
ROUGH-IN  
SANITARY SEWER  
SEPTIC TANK  
SEWAGE  
SEWAGE PUMP  
SKYLIGHT  
SKYLIGHT AND SLOPED GLAZING  
SKYLIGHT, UNIT  
SLEEPING UNIT  
SLIP JOINT  
SLOPE  
SOIL STACK OR PIPE  
SOLAR HEAT GAIN COEFFICIENT (SHGC)  
STACK  
STACK VENT  
STANDARD TRUSS  
STATIONARY FUEL CELL POWER PLANT  
STORM SEWER, DRAIN  
SUBSOIL DRAIN

SUMP  
 SUMP PUMP  
 SUPPLY AIR  
 SWEEP  
 TEMPERATURE- AND PRESSURE-RELIEF (T AND P) VALVE  
 TEMPERATURE-RELIEF VALVE  
 THERMAL RESISTANCE, R-VALUE  
 THERMAL TRANSMITTANCE, U-FACTOR  
 THIRD-PARTY CERTIFICATION AGENCY  
 THIRD PARTY CERTIFIED  
 THIRD-PARTY TESTED  
 TRAP  
 TRAP ARM  
 TRAP PRIMER  
 TRAP SEAL  
 U-FACTOR, THERMAL TRANSMITTANCE  
 VACUUM BREAKERS  
 VENT COLLAR  
 VENT CONNECTOR  
 VENT DAMPER DEVICE, AUTOMATIC  
 VENT GASES  
 VENT STACK  
 VENT SYSTEM  
 VERTICAL PIPE  
 WASTE  
 WASTE PIPE OR STACK  
 WASTE RECEPTOR  
 WATER-DISTRIBUTION SYSTEM  
 WATER HEATER  
 WATER MAIN  
 WATER OUTLET  
 WATER-SERVICE PIPE  
 WATER SUPPLY SYSTEM  
 WET VENT  
 WHOLE-HOUSE MECHANICAL VENTILATION SYSTEM  
 WINDBORNE DEBRIS REGION

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5. CHAPTER 3  
 BUILDING PLANNING

**2013 CRC SECTION R315 CARBON MONOXIDE ALARMS**

Sections:	R315.1	Carbon monoxide alarms in new construction
	R315.1.1	Carbon monoxide detection systems
	R315.1.2	Power supply
	R315.1.3	Interconnection
	R315.1.4	Alarm requirements
	R315.1.5	Multiple-purpose alarms
	R315.2	Carbon monoxide alarms in existing dwelling units and sleeping units
	R315.2.1	Carbon monoxide detection systems
	R315.2.2	Existing dwellings or sleeping units requiring a permit
	R315.2.3	Existing dwellings or sleeping units not requiring a permit (no construction taking place)
	R315.2.3.1	Carbon monoxide alarms on or after July 1, 2011
	R315.2.3.2	Carbon monoxide alarms on or after January 1, 2013
	R315.2.4	Power supply
	R315.2.5	Interconnection
	R315.2.6	Alarm requirements

**Rationale:** HCD proposes to repeal and not bring forward the existing California amendments of the above referenced sections from the 2013 California Residential Code into the 2016 California Residential Code. The above

sections were adopted by HCD to replace model code language and reflect provisions for carbon monoxide devices as adopted in an emergency rulemaking and approved by the California Building Standards Commission in July 2011. This adoption intended to provide consistency for enforcing agencies and code users that implemented the emergency regulations, which became effective in July 2011. HCD now proposes in separate action during this 2015 Triennial Code Adoption Cycle to adopt the model code language from the 2015 International Residential Code Section R315 with California amendments into the 2016 California Residential Code. There is no intended change in regulatory effect from the 2013 provisions.

California Health and Safety Code “The Carbon Monoxide Poison Prevention Act of 2010”, as enacted by Senate Bill 183 (Chapter 19, Statutes of 2010), required all detached single family dwellings with fuel burning appliances or an attached garage to have carbon monoxide alarms installed prior to July 1, 2011, and all other dwelling units by January 1, 2013. State law allows these devices to be battery operated or plug-in with battery back-up, however, also states that under certain conditions the devices shall comply with installation requirements for new construction contained in the California Building Code and the California Residential Code, which require these devices to be hardwired and interconnected. The emergency regulations adopted in July 2011 were for the purposes of addressing carbon monoxide device requirements for both new and existing residential structures and to provide guidance on conditions under which battery operated or plug-in devices were appropriate and also conditions under which interconnection of devices would not be required. In part, these regulations were patterned after requirements for smoke alarms in residential structures. The regulations also addressed listing requirements, installation locations and reference standards for carbon monoxide alarms and detectors. These amendments, as carried forward into the 2013 CRC, intended to clarify existing statute, reduce economic hardship and ensure internal consistency and compliance with California building standards.

For additional history on these amendments, see the Initial Statement of Reasons and Final Statement of Reasons rulemaking documents for the 2010 California Residential Code and 2013 California Residential Code. These documents are available on HCD’s website.

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**6. CHAPTER 3  
BUILDING PLANNING**

**SECTION:R300 SITE DRAINAGE**

**Sections: R300.1 Storm water drainage and retention during construction  
R300.2 Grading and paving**

**Rationale:** HCD proposes to bring forward the above referenced existing California amendments from the 2013 California Residential Code into the 2016 California Residential Code without modification. During the 2013 Code Adoption Cycle pointers to mandatory CALGreen requirements were proposed for inclusion into the code to enhance user convenience and familiarity. These pointers may also serve as potential locations for the complete CALGreen requirement in the event that HCD makes the decision in a future rulemaking to discontinue Part 11, CALGreen and incorporate its requirements into other parts of Title 24, the California Building Standards Code.

**SECTION R301 DESIGN CRITERIA**

**Section: R301.1.1 Alternative provisions**

**Rationale:** HCD proposes to bring forward the above referenced existing California amendments from the 2013 California Residential Code into the 2016 California Residential Code without modification. HCD proposes to bring forward the existing California amendment which deletes “International” and replaces it with “California” to provide the code user a correct reference to the California Building Code.

**Section: R301.1.1.1 Alternative provisions for limited-density owner-built rural dwellings**

**Rationale:** HCD proposes to bring forward the above referenced California amendment from the 2013 California Residential Code into the 2016 California Residential Code without modification. The HCD amendment provides five criteria demonstrating instances where the local enforcing agency must allow or can consider alternative requirements for limited-density owner-built rural dwellings. There is no intended change in regulatory effect.

**Section: R301.1.3 Engineered design**

**Rationale:** HCD proposes to bring forward the above referenced existing California amendments from the 2013 California Residential Code into the 2016 California Residential Code without modification. The HCD amendment deletes “International” and replaces it with “California” to provide the code user a correct reference to the California Building Code. There is no intended change in regulatory effect.

**Sections: R301.1.3.1 California licensed architect or engineer  
R301.1.3.2 Woodframe structures greater than two-stories  
R301.1.3.3 Structures other than woodframe**

**Rationale:** HCD proposes to bring forward the above referenced existing California amendments from the 2013 California Residential Code into the 2016 California Residential Code without modification. Existing statute only exempts (in specific applications) woodframe construction of two stories or less from professional design requirements. The HCD amendment provides the code user with necessary information about additional California requirements and also directs the code user to the applicable law located in the Business and Professions Code. The HCD amendment is intended to provide clarity and consistency to the code user for application and enforcement. There is no intended change in regulatory effect.

**TABLE: R301.2(1) CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA**

**Rationale:** HCD proposes to bring forward the above referenced existing California amendments from the 2013 California Residential Code into the 2016 California Residential Code without modification. HCD proposes to bring forward the existing California amendment from Table R301.2(1) of the 2013 California Residential Code into the 2016 California Residential Code. The HCD amendment removes model code language from footnote “e” which directs the code user to Appendix D of the International Plumbing Code (IPC) which is not proposed for adoption by HCD. HCD’s amendment provides that the building official shall be responsible for making any determination of local temperatures required by footnote “e”. There is no intended change in regulatory effect.

**Section: R301.2.1.1 Wind limitations and wind design required**

**Rationale:** HCD proposes to bring forward the above referenced existing California amendments from the 2013 California Residential Code into the 2016 California Residential Code without modification. HCD proposes to bring forward the existing California amendment which deletes “International” in three places and replaces the term with “California” to provide the code user a correct reference to the California Building Code. There is no intended change in regulatory effect.

**Section: R301.2.2.1.1 Alternate determination of seismic design category**

**Rationale:** HCD proposes to bring forward the above referenced existing California amendments from the 2013 California Residential Code into the 2016 California Residential Code without modification. HCD proposes to bring forward the existing California amendment which deletes “International” in three places and replaces the term with “California” to provide the code user a correct reference to the California Building Code. There is no intended change in regulatory effect.

**Section: R301.2.2.1.2 Alternative determination of Seismic Design Category E**

**Rationale:** HCD proposes to bring forward the above referenced existing California amendments from the 2013 California Residential Code into the 2016 California Residential Code without modification. HCD proposes to bring forward the existing California amendment which deletes “International” in two places and replaces the term with “California” to provide the code user a correct reference to the California Building Code. There is no intended change in regulatory effect.

**Section: R301.2.2.3.7 Anchorage of water heaters**

**Rationale:** HCD proposes to bring forward the above referenced existing California amendments from the 2013 California Residential Code into the 2016 California Residential Code without modification. HCD proposes to bring forward the existing California amendment which deletes reference to Section “M1307.2”. IRC mechanical and plumbing provisions are not adopted by HCD. This amendment is necessary to provide the correct reference to the California Plumbing Code. There is no intended change in regulatory effect.

**Section: R301.2.2.4 Seismic Design Category E**

**Rationale:** HCD proposes to bring forward the above referenced existing California amendments from the 2013 California Residential Code into the 2016 California Residential Code without modification. The HCD amendment deletes “International” and replaces it with “California” to provide the code user a correct reference to the California Building Code. There is no intended change in regulatory effect.

**Section: R301.3 Story height**

**Rationale:** HCD proposes to bring forward the above referenced existing California amendments from the 2013 California Residential Code into the 2016 California Residential Code without modification. HCD proposes to delete “International” in Item 5 and replace the term with “California” to provide the code user a correct reference to the California Building Code.

## **SECTION R302 FIRE-RESISTANT CONSTRUCTION**

### **Section: R302.1 Exterior walls**

**Rationale:** HCD proposes to bring forward the above referenced existing California amendments from the 2013 California Residential Code into the 2016 California Residential Code without modification. HCD proposes to bring forward the existing California amendment which deletes reference to Section "P2904". The IRC mechanical and plumbing provisions are not adopted by HCD. This amendment is necessary to provide the correct reference to the California Residential Code Section R313, which is a California amendment adopted by the Office of the State Fire Marshal.

### **Section: R302.2 Townhouses**

**Rationale:** HCD proposes to bring forward the above referenced existing California amendments from the 2013 California Residential Code into the 2016 California Residential Code with modification. HCD proposes to bring forward the existing California amendment which strikes reference to IRC electrical chapters (Chapters 33 through 43) since IRC electrical chapters are not adopted by HCD. HCD proposes a new amendment to delete references to Section "P2904" and replace the term with "R313". The IRC mechanical and plumbing provisions are not adopted by HCD. This amendment is necessary to provide the correct reference to the California Residential Code Section R313, which is a California amendment adopted by the Office of the State Fire Marshal.

### **Section: R302.5.1 Opening protection**

**Rationale:** HCD proposes to bring forward the above referenced existing California amendments from the 2013 California Residential Code into the 2016 California Residential Code without modification. The HCD amendment adds the requirement for doors located in openings between the garage and dwelling-unit to be equipped with self-closing and self-latching devices. Although the IRC requires these doors to be self-closing, it does not specify that the doors also be "self-latching". There is no intended change in regulatory effect.

### **Section: R302.6 Dwelling-garage fire separation**

**Rationale:** HCD proposes to bring forward the above referenced existing California amendments from the 2013 California Residential Code into the 2016 California Residential Code without modification. HCD proposes to bring forward the existing California amendment which exempts separation between a dwelling unit and carport as specified. There is no intended change in regulatory effect.

### **Section: R302.14 (formerly R302.13) Combustible insulation clearance**

**Rationale:** HCD proposes to bring forward the above referenced existing California amendments from the 2013 California Residential Code into the 2016 California Residential Code without modification. The HCD amendment deletes the term "thermal," in "building thermal envelope" and the reference to IRC Section N1102.4.4. Chapter 11, "Energy," is not adopted by HCD. The HCD amendment is consistent with the definition in the California Energy Code, Title 24, Part 6, therefore, the code user is provided a correct reference to the California Energy Code for minimum requirements regarding clearance to recessed luminaires. This section was formerly Section R302.13 in the 2013 California Residential Code. There is no intended change in regulatory effect.

## **SECTION R303 LIGHT, VENTILATION AND HEATING**

### **Section: R303.1 Habitable rooms**

**Rationale:** HCD proposes to bring forward the above referenced existing California amendments from the 2013 California Residential Code into the 2016 California Residential Code without modification. The amendment deletes the reference to "Section M1507". The IRC mechanical provisions are not adopted by HCD and this amendment provides the correct reference to the California Mechanical Code. HCD also proposes to continue the adoption of an amendment which adds Exceptions 4 and 5 in recognition of the provisions in Health and Safety Code Section 17959.3 to encourage passive solar energy design, and HCD adoption of related building standards. There is no intended change in regulatory effect.

### **Section: R303.3 Bathrooms**

**Rationale:** HCD proposes to bring forward the above referenced existing California amendment from the 2013 California Residential Code into the 2016 California Residential Code without modification. The HCD amendment provides the required local exhaust rates for bathrooms and private toilet rooms as required in the 2016 California Mechanical Code and deletes reference to Section M1507. The IRC mechanical provisions are not adopted by HCD. There is no intended change in regulatory effect.

**Section: R303.3.1 Bathroom exhaust fans**

**Rationale:** HCD proposes to bring forward the above referenced existing California amendment from the 2013 California Residential Code into the 2016 California Residential Code without modification. During the 2013 Code Adoption Cycle pointers to mandatory CALGreen requirements were proposed for inclusion into the code to enhance user convenience and familiarity. These pointers may also serve as potential locations for the complete CALGreen requirement in the event that HCD makes the decision in a future rulemaking to discontinue Part 11, CALGreen and incorporate its requirements into other parts of Title 24, the California Building Standards Code. There is no intended change in regulatory effect from the 2013 CRC. There is no intended change in regulatory effect.

**Section: R303.4 Ventilation**

**Rationale:** HCD proposes to bring forward the above referenced existing California amendment from the 2013 California Residential Code into the 2016 California Residential Code without modification. The amendment changes the model code definition directs the code user to the California Mechanical Code for ventilation air rates. There is no intended change in regulatory effect.

**Section: R303.8.1.1 Passive solar energy collectors**

**Rationale:** HCD proposes to bring forward the above referenced existing California amendment from the 2013 California Residential Code into the 2016 California Residential Code with modification. The amendment is a pointer to the California Energy Code for requirements for passive solar energy collectors. The proposed modification deletes unnecessary text for consistency with other California codes. There is no intended change in regulatory effect.

**Section: R303.9 Required heating**

**Rationale:** HCD proposes to bring forward the above referenced existing California amendment from the 2013 California Residential Code into the 2016 California Residential Code without modification. The amendment added a note to direct the code user to Section R301.1.1.1 where California amended language for limited-density owner-built rural dwellings has been placed. There is no intended change in regulatory effect.

**SECTION R304 MINIMUM ROOM AREAS**

**Section: R304.2 (formerly R304.3) Minimum dimensions**

**Rationale:** HCD proposes to bring forward the above referenced existing California amendment from the 2013 California Residential Code into the 2016 California Residential Code without modification. The amendment added Exception 2 addressing limited-density owner-built rural dwellings. Pointers have been placed within the CRC directing code users to applicable code provisions in Section R301.1.1.1. There is no intended change in regulatory effect.

**Section: R304.5 Efficiency dwelling units**

**Rationale:** HCD proposes to bring forward the above referenced existing California amendment from the 2013 California Residential Code into the 2016 California Residential Code without modification. The amendment clarifies and recognizes efficiency dwelling units and required minimum dimensions in the California Residential Code. There is no intended change in regulatory effect.

**SECTION R307 TOILET, BATH AND SHOWER SPACES**

**Section: R307.1 Space required**

**Rationale:** HCD proposes to bring forward the above referenced existing California amendments from the 2013 California Residential Code into the 2016 California Residential Code without modification. The HCD amendment deletes reference to requirements of Section P2705.1 and adds "The California Plumbing Code" to provide the code user a correct reference. The IRC plumbing provisions are not adopted by HCD. There is no intended change in regulatory effect.

**FIGURE: R307.1 MINIMUM FIXTURE CLEARANCES**

**Rationale:** HCD proposes to continue non-adoption of the above referenced model code figure as it conflicts with California Plumbing Code requirements. A banner has been added in the Express Terms besides each non-adopted section stating; "Not Adopted in CA." Additionally, an obelisk has been added to the Matrix Adoption Table to identify the non-adopted section. This amendment has been brought forward from the 2013 CRC with no intended change in regulatory effect.

## **SECTION R308 GLAZING**

### **Section: R308.5 Site-built windows**

**Rationale:** HCD proposes to bring forward the above referenced existing California amendments from the 2013 California Residential Code into the 2016 California Residential Code without modification. The HCD amendment strikes "International" and replaces it with "California" to provide the code user a correct reference, the California Building Code. This amendment has been brought forward from the 2013 CRC with no intended change in regulatory effect.

## **SECTION R309 GARAGES AND CARPORTS**

### **Section: R309.4 Automatic garage door openers**

**Rationale:** HCD proposes to bring forward the above referenced existing California amendments from the 2013 California Residential Code into the 2016 California Residential Code without modification. The HCD amendment adds a reference to existing California law, regarding automatic garage door openers. There is no intended change in regulatory effect.

### **Section: R309.7 Extension garage door springs**

**Rationale:** HCD proposes to bring forward the above referenced existing California amendments from the 2013 California Residential Code into the 2016 California Residential Code without modification. The HCD amendment provides a reference to existing California amendments in the CBC, Section 1211, which are also relevant to the construction of one- and two-family dwellings and townhouses covered in the CRC. There is no intended change in regulatory effect.

### **Section: R309.8 Electric vehicle (EV) charging infrastructure**

**Rationale:** HCD proposes to adopt the above referenced new California amendment into the 2016 California Residential Code. This amendment is a pointer to mandatory requirements for electric vehicle charging infrastructure in CALGreen. During the 2013 Code Adoption Cycle pointers to mandatory CALGreen requirements were proposed for inclusion into the code to enhance user convenience and familiarity. These pointers may also serve as potential locations for the complete CALGreen requirement in the event that HCD makes the decision in a future rulemaking to discontinue Part 11, CALGreen and incorporate its requirements into other parts of Title 24, the California Building Standards Code.

## **SECTION R310 EMERGENCY ESCAPE AND RESCUE OPENINGS**

### **Section: R310.2.2 Window sill height**

**Rationale:** HCD proposes to adopt the above referenced section from the 2015 International Residential Code into the 2016 California Residential Code with amendment. The amendment is an existing California amendment from Section 310.1 of the 2013 California Residential Code and is proposed to be relocated into this section. The existing California amendment clarifies that the bottom of emergency escape and rescue openings (not the window sill height) must be no higher than 44 inches measured from the floor to the bottom of the clear opening. The model code allows for the window sill height to be not more than 44 inches above the floor. Part of the 2012 model code language has been relocated to a new section. Section R310.2.2 of the 2015 IRC now contains the language regulating the height of emergency escape and rescue openings. There is no intended change in regulatory effect.

## **SECTION R312 GUARDS AND WINDOW FALL PROTECTION**

### **Section: R312.1.2 Height**

**Rationale:** HCD proposes to bring forward the above referenced existing California amendments from the 2013 California Residential Code into the 2016 California Residential Code without modification. The HCD amendment is provided to maintain the same 42" guard height requirement as in the CBC. There is no intended change in regulatory effect.

## **SECTION R313 AUTOMATIC FIRE SPRINKLER SYSTEMS**

- Sections:**
- R313.1 Townhouse automatic fire sprinkler systems**
  - R313.1.1 Design and installation**
  - R313.2 One- and two-family dwellings automatic fire systems**
  - R313.2.1 Design and installation**

**Rationale:** HCD proposes to not adopt the above referenced sections.

HCD is proposing to not adopt fire sprinkler requirements for 1- and 2-family dwellings and townhouses. Sections requiring fire sprinklers and fire sprinkler specifications were co-adopted by HCD and the Office of the State Fire Marshal (OSFM) during the 2009 Triennial Code Adoption Cycle. This created confusion with stakeholders regarding interpretation and enforcement. Residential fire sprinkler requirements and other amendments related to fire sprinklers, and their continued adoption and maintenance will be promulgated through the OSFM.

## **SECTION R315 CARBON MONOXIDE ALARMS**

### **Section: R315.1 General**

**Rationale:** HCD proposes to adopt the above referenced section from the 2015 International Residential Code into the 2016 California Residential Code without amendment.

### **Section: R315.1.1 Listings**

**Rationale:** HCD proposes to adopt the above referenced section from the 2015 International Residential Code into the 2016 California Residential Code with amendment. HCD proposes to relocate an existing amendment from the 2013 CRC Section R315.2.6 (with editorial corrections), identifying the restrictions for sales, approval and listing by the Office of the State Fire Marshal. There is no intended change in regulatory effect from the 2013 CRC.

### **Section: R315.2 Where required**

**Rationale:** HCD proposes to adopt the above referenced section from the 2015 International Residential Code into the 2016 California Residential Code with amendment. HCD proposes to relocate an existing amendment from the 2013 CRC Section R315.2.3 (with editorial corrections), referencing the statutory mandate which identifies the requirements for installation of carbon monoxide alarms in every existing dwelling unit with a fossil fuel burning heater or appliance, fireplace or an attached garage. There is no intended change in regulatory effect from the 2013 CRC.

### **Sections: R315.2.1 Existing buildings and new construction R315.2.2 Alterations, repairs and additions**

**Rationale:** HCD proposes to adopt the above referenced sections from the 2015 International Residential Code into the 2016 California Residential Code without amendment. HCD proposes to relocate an existing amendment from the 2013 CRC Section R315.2.2 (with editorial corrections), clarifying the requirements for installation of carbon monoxide alarms in every existing dwelling undergoing alterations, repairs or additions, where the alteration repair or addition introduces a fuel burning heater, appliance, or fireplace into a dwelling, or an addition of an attached garage. This amendment is required to clarify that even where a dwelling was not required to have a carbon monoxide alarm prior to the alteration repair or addition, adding a fuel burning heater, appliance, fireplace, or attached garage triggers the requirement for carbon monoxide alarms. There is no intended change in regulatory effect from the 2013 CRC.

### **Section: R315.3 Location**

**Rationale:** HCD proposes to adopt the above referenced section from the 2015 International Residential Code into the 2016 California Residential Code with amendment. HCD proposes to relocate text from an existing amendment from the 2013 CRC Section R315.1 identifying the requirement for carbon monoxide alarms to be installed in accordance with manufacturer's installation instructions. HCD also proposes to relocate an existing amendment from the 2013 CRC Section R315.1.4 identifying the locations required to be provided with carbon monoxide alarms. There is no intended change in regulatory effect from the 2013 CRC.

### **Section: R315.4 Combination alarms**

**Rationale:** HCD proposes to adopt the above referenced section from the 2015 International Residential Code into the 2016 California Residential Code with amendment. HCD proposes to relocate text from an existing amendment from the 2013 CRC Section R315.1.5 identifying the requirement for carbon monoxide alarms combined with smoke alarms (combination alarms) to comply with the applicable standards and requirements for listing and approval by the Office of the State Fire Marshal. There is no intended change in regulatory effect from the 2013 CRC.

### **Section: R315.5 Power source**

**Rationale:** HCD proposes to adopt the above referenced section from the 2015 International Residential Code into the 2016 California Residential Code with amendment. HCD proposes to relocate text from an existing amendment from the 2013 CRC Section R315.2.4 (with editorial corrections), identifying the different cases (exceptions) where the required carbon monoxide alarms may be solely battery powered, and not powered by the building wiring supplied by a commercial source such as an electrical utility company providing electrical service to the building. There is no intended change in regulatory effect from the 2013 CRC.

**Sections: R315.6 Carbon monoxide detection systems  
R315.6.1 General**

**Rationale:** HCD proposes to adopt the above referenced section from the 2015 International Residential Code into the 2016 California Residential Code without amendment.

**Section: R315.6.2 Location**

**Rationale:** HCD proposes to adopt the above referenced section from the 2015 International Residential Code into the 2016 California Residential Code with amendment. HCD proposes to relocate text from an existing amendment from the 2013 CRC Section R315.2.1 (with editorial corrections). HCD amends the model code to specify that the carbon monoxide detectors shall be maintained in the locations specified in R315.3. Further, HCD believes that the location requirements in NFPA 720 are consistent with the locations specified in Section R315.3, therefore proposes to delete the model code language stating that the locations in R315.3 supercede the locations specified in NFPA 720. There is no intended change in regulatory effect from the 2013 CRC.

**Section: R315.6.3 Permanent fixture**

**Rationale:** HCD proposes to adopt the above referenced section from the 2015 International Residential Code into the 2016 California Residential Code without amendment.

**Section: R315.6.4 Combination detectors**

**Rationale:** HCD proposes to adopt the above referenced section from the 2015 International Residential Code into the 2016 California Residential Code with amendment. HCD proposes to relocate text from an existing amendment from the 2013 CRC Section R315.1.5 (with editorial corrections) identifying the requirements for combination detectors that detect both smoke and carbon monoxide to be listed and approved by the Office of the State Fire Marshal. There is no intended change in regulatory effect from the 2013 CRC.

**Section: R315.7 Interconnection**

**Rationale:** HCD proposes to adopt the above referenced section from the 2015 International Residential Code into the 2016 California Residential Code with amendment. HCD proposes to relocate text from an existing amendment in the 2013 CRC Section R315.2.5 (with editorial corrections), identifying the different cases where interconnection of carbon monoxide alarms is not required. There is no intended change in regulatory effect from the 2013 CRC.

**SECTION R320 ACCESSIBILITY**

**Section: R320.1 Scope**

**Rationale:** HCD proposes to bring forward the above new existing California amendments from the 2013 California Residential Code into the 2016 California Residential Code without modification. This model code section references an IRC division, chapter, and/or section not proposed for adoption by HCD. Adoption of this section referencing IRC Chapter 11, conflicts with Chapter 11A in California Building Code adopted by HCD. The HCD amendment directs the code user to the applicable code requirements.

**Section: R320.1.1 Guestrooms**

**Rationale:** HCD proposes to delete and not adopt the above referenced section into the 2016 California Residential Code. HCD does not adopt accessibility standards from the International Residential Code.

**SECTION R321 ELEVATORS AND PLATFORM LIFTS**

**Section: R321.3 Accessibility**

**Rationale:** HCD proposes to bring forward the above referenced existing California amendments from the 2013 California Residential Code into the 2016 California Residential Code with modification. The amendment deletes "International" and replaces it with "California" to provide the code user a correct reference, the California Building Code. The proposed amendment also directs the code user to applicable code requirements in CBC Chapter 11A. The modification to the existing California amendment changes the reference from Section 1124A to Chapter 11A. This modification is to make maintenance of this amendment easier should the section numbering in Chapter 11A change. There is no intended change in regulatory effect from the 2013 CRC.

## **SECTION R322 FLOOD-RESISTANT CONSTRUCTION**

### **Section: R322.1.6 Protection of mechanical, plumbing and electrical systems**

**Rationale:** HCD proposes to bring forward the above referenced existing California amendments from the 2013 California Residential Code into the 2016 California Residential Code without modification. The amendment deletes reference to “electrical part of this code” and adds “California Electrical Code” to provide the code user a correct reference. There is no intended change in regulatory effect from the 2013 CRC.

### **Section: R322.1.7 Protection of water supply and sanitary sewage systems**

**Rationale:** HCD proposes to bring forward the above referenced existing California amendments from the 2013 California Residential Code into the 2016 California Residential Code without modification. This amendment provides clarity and consistency to the code user and enforcing agencies. There is no intended change in regulatory effect from the 2013 CRC.

### **Section: R322.1.9 Manufactured homes**

**Rationale:** HCD proposes to not adopt the above referenced section. This model code section conflicts with existing state law applicable to manufactured housing.

## **SECTION: 324 SOLAR ENERGY SYSTEMS**

### **Section: R324.2 Solar thermal systems**

**Rationale:** HCD proposes to adopt the above referenced section from the 2015 International Residential Code into the 2016 California Residential Code with amendment. The proposed amendment replaces the model code reference to Chapter 23 to the California Plumbing Code and changes the reference from the International Fire Code to the California Fire Code. This amendment is necessary to provide the proper reference to the applicable code.

### **Section: R324.3 Photovoltaic systems**

**Rationale:** HCD proposes to adopt the above referenced section from the 2015 International Residential Code into the 2016 California Residential Code with amendment. The proposed amendment changes the reference from NFPA 70 (National Electrical Code) to the California Electrical Code. This amendment is necessary to provide the proper reference to the applicable code.

### **Section: R324.6.1 Fire separation distances**

**Rationale:** HCD proposes to adopt the above referenced section from the 2015 International Residential Code into the 2016 California Residential Code with amendment. The proposed amendment changes the term “local jurisdiction” to “enforcing agency.” This amendment is necessary to provide the code user with the proper term for the local authority.

### **Sections: R324.7 Access and pathways (Exception 2)**

#### **R324.7.2.5 Allowance for smoke ventilation operations**

**Rationale:** HCD proposes to adopt the above referenced sections from the 2015 International Residential Code into the 2016 California Residential Code with amendments. The proposed amendments change the term “code official” to “enforcing agency.” This amendment is necessary to provide the code user with the proper term for the local enforcing agency used throughout other California codes.

### **Section: R326 Swimming Pools, Spas and Hot Tubs**

**Rationale:** HCD proposes to not adopt the above referenced section. HCD does not have statutory authority to adopt design and construction standards for pools and spas.

## **SECTION R334 (formerly R324) CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING**

### **Section: R334.1 (formerly R324.1) Construction waste management**

**Rationale:** HCD proposes to bring forward the above referenced existing California amendments from the 2013 California Residential Code into the 2016 California Residential Code with editorial renumbering and modification. The modification changes the requirements for recycling construction and demolition waste from 50 percent to 65 percent. This modification is necessary for consistency with the CALGreen Code. During the 2013 Code Adoption Cycle pointers to mandatory CALGreen requirements were proposed for inclusion into the code to enhance user convenience and familiarity. These pointers may also serve as potential locations for the complete CALGreen requirement in the event that HCD makes the decision in a future rulemaking to discontinue Part 11, CALGreen and incorporate its requirements into other parts of Title 24, the California Building Standards Code.

## **SECTION R340 (formerly R330) POLLUTANT CONTROL**

### **Section: R340.1 (formerly R330.1) Finish material pollutant control**

**Rationale:** HCD proposes to bring forward the above referenced existing California amendments from the 2013 California Residential Code into the 2016 California Residential Code with editorial renumbering. During the 2013 Code Adoption Cycle pointers to mandatory CALGreen requirements were proposed for inclusion into the code to enhance user convenience and familiarity. There is no intended change in regulatory effect from the 2013 CRC.

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## **7. CHAPTER 4 FOUNDATIONS**

### **SECTION R401 GENERAL**

#### **Section: R401.2 Requirements**

**Rationale:** HCD proposes to continue to adopt the above referenced model code section and bring forward existing California amendments from the 2013 California Residential Code for adoption into the 2016 California Residential Code without modification. The California amendment informs the code user to refer to Section R301.1.1.1 which addresses limited-density owner-built rural dwellings. There is no intended change in regulatory effect from the 2013 CRC.

<b>Sections:</b>	<b>R401.4.1.1</b>	<b>General and where required for applications listed in Section 1.8.2.1.1 regulated by the Department of Housing and Community Development</b>
	<b>R401.4.1.1.1</b>	<b>Preliminary soil report</b>
	<b>R401.4.1.1.2</b>	<b>Soil investigation by lot, necessity, preparation, and recommendations</b>
	<b>R401.4.1.1.3</b>	<b>Approval, building permit conditions, appeal</b>
	<b>R401.4.1.1.4</b>	<b>Liability</b>
	<b>R401.4.1.1.5</b>	<b>Alternate procedures</b>

**Rationale:** HCD proposes to bring forward the above referenced existing California amendments from the 2013 California Residential Code into the 2016 California Residential Code without modification. These California amendments are necessary to implement existing law found in Health and Safety Code (HSC) Sections 17953 through 17955 which require soils investigation for subdivisions and Sections 17956 and 17957 addressing liability and authority for local use of alternate procedures, respectively. The amendment also allows for the use of alternate procedures by local enforcing agencies. There is no intended change in regulatory effect from the 2013 CRC.

### **SECTION R403 FOOTINGS**

#### **Section: R403.1.8 Foundations on expansive soils**

**Rationale:** HCD proposes to continue to adopt the above referenced model code section and bring forward existing California amendments from the 2013 California Residential Code for adoption into the 2016 California Residential Code without modification. The amendment deletes "International" and replaced with "California" to provide the code user a correct reference to the California Building Code. There is no intended change in regulatory effect from the 2013 CRC.

### **Section R404 FOUNDATION AND RETAINING WALLS**

#### **Section: R404.5.1 Design**

**Rationale:** HCD proposes to continue to adopt the above referenced model code section and bring forward existing California amendments from the 2013 California Residential Code for adoption into the 2016 California Residential Code without modification. International Residential Code provisions for precast concrete do not include prescriptive design criteria; therefore, it requires design by a registered professional. There is no intended change in regulatory effect from the 2013 CRC.

### **SECTION R408 UNDER-FLOOR SPACE**

#### **Section: R408.3 Unvented crawl space**

**Rationale:** HCD proposes to continue to adopt the above referenced model code section and bring forward existing California amendments from the 2013 California Residential Code for adoption into the 2016 California Residential Code with modification. The proposed modification repeals an existing amendment in Item 2.1 which requires crawl space perimeter walls to be insulated when unvented crawlspace is provided with mechanical ventilation. Crawl space perimeter wall insulation is not required in the California Building Code for the same condition, and is not

required in the California Energy Code, therefore HCD proposes to repeal this requirement for consistency. HCD is however continuing the adoption of the amendment, which requires crawl space perimeter walls to be insulated in Item 2.2, for consistency with the California Energy Code.

HCD also proposes to continue to delete references to International Residential Code sections not proposed for adoption and provide a correct reference to the California Mechanical Code.

**Section: R408.4 Access**

**Rationale:** HCD proposes to continue to adopt the above referenced model code section and bring forward existing California amendments from the 2013 California Residential Code for adoption into the 2016 California Residential Code without modification. This model code section references an International Residential Code division, chapter, and/or sections not proposed for adoption by HCD. The amendment provides a correct reference to the California Mechanical Code. There is no intended change in regulatory effect from the 2013 CRC.

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**8. CHAPTER 5  
FLOORS**

**SECTION R502 WOOD FLOOR FRAMING**

**Section: R502.1.1 Sawn lumber**

**Rationale:** HCD proposes to continue to adopt the above referenced model code section and bring forward existing California amendments from the 2013 California Residential Code for adoption into the 2016 California Residential Code without modification. The California amendment adds a reference to limited-density owner-built rural dwellings. Pointers have been placed within the California Residential Code directing code users to applicable code provisions in Section R301.1.1.1. This amendment was formerly to Section R502.1 which was split in to two Sections R502.1 and R502.1.1. There is no intended change in regulatory effect from the 2013 CRC.

**Section: R502.11.1 Design**

**Rationale:** HCD proposes to continue to adopt the above referenced model code section and bring forward existing California amendments from the 2013 California Residential Code for adoption into the 2016 California Residential Code without modification. This model code section references an IRC division, chapter, and/or section not proposed for adoption by HCD. The amendment deletes reference to Section R106.1 which is not proposed for adoption by HCD and contains administrative provisions a local enforcing agency may choose to legally adopt by ordinance, resolution or charter to conduct enforcement activities. In addition, wood trusses do not have prescriptive design criteria, therefore, design by a registered professional is required. There is no intended change in regulatory effect from the 2013 CRC.

**SECTION R506 CONCRETE FLOORS (ON GROUND)**

**Section: R506.2.3.1 Capillary break**

**Rationale:** HCD proposes to bring forward the above referenced existing California amendment from the 2013 California Residential Code into the 2016 California Residential Code without modification. This amendment is a pointer to mandatory CALGreen requirements.

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**9. CHAPTER 6  
WALL CONSTRUCTION**

**SECTION R602 WOOD WALL FRAMING**

**Section: R602.1.1 Sawn lumber**

**Rationale:** HCD proposes to continue to adopt the above referenced model code section and bring forward existing California amendments from the 2013 California Residential Code for adoption into the 2016 California Residential Code without modification. The California amendment adds a reference to limited-density owner-built rural dwellings. This amendment was formerly to Section R602.1 which was split in to two sections R602.1 and R602.1.1. There is no intended change in regulatory effect from the 2013 CRC.

**Section: R602.3.4.1 Rodent proofing**

**Rationale:** HCD proposes to bring forward the above referenced existing California amendment from the 2013 California Residential Code into the 2016 California Residential Code without modification. This amendment is a pointer to mandatory CALGreen requirements. There is no intended change in regulatory effect from the 2013 CRC.

**Table: R602.10.3(3) BRACING REQUIREMENTS BASED ON SEISMIC DESIGN CATEGORY**

**Rationale:** HCD proposes to continue to adopt the above referenced model code Table and bring forward existing California amendment from the 2013 California Residential Code for adoption into the 2016 California Residential Code without modification. Footnote “b” of this model code table references the IBC. The amendment strikes “International” and replaces it with “California” to provide the code user a correct reference, the California Building Code. There is no intended change in regulatory effect from the 2013 CRC.

**SECTION 606 GENERAL MASONRY CONSTRUCTION**

**Section: R606.1.1 Professional registration**

**Rationale:** HCD proposes to continue to adopt the above referenced model code section and bring forward existing California amendment from the 2013 California Residential Code for adoption into the 2016 California Residential Code without modification. This amendment provides the code user with necessary information about additional California requirements and also directs the code user to the applicable law located in the Business and Professions Code. There is no intended change in regulatory effect from the 2013 CRC.

**Table: R606.12.2.1 MINIMUM SOLID WALL LENGTH ALONG EXTERIOR WALL LINES**

**Rationale:** HCD proposes to continue to adopt the above referenced model code table and bring forward existing California amendment from the 2013 California Residential Code for adoption into the 2016 California Residential Code without modification. The amendment deletes “International” and replaces it with “California” to provide the code user a correct reference, the California Building Code. There is no intended change in regulatory effect from the 2013 CRC.

**SECTION R608 EXTERIOR CONCRETE WALL CONSTRUCTION**

**Section: R608.1 (formerly 611.1) General**

**Rationale:** HCD proposes to continue to adopt the above referenced model code section and bring forward existing California amendments from the 2013 California Residential Code for adoption into the 2016 California Residential Code without modification. The amendment provides the code user with necessary information about additional California requirements and also directs the code user to the applicable law located in the Business and Professions Code. There is no intended change in regulatory effect from the 2013 CRC.

**SECTION R610 STRUCTURAL INSULATED PANEL WALL CONSTRUCTION**

**Section: R610.1 (formerly 613.1) General**

**Rationale:** HCD proposes to continue to adopt the above referenced model code section and bring forward existing California amendments from the 2013 California Residential Code for adoption into the 2016 California Residential Code without modification. The amendment provides the code user with necessary information about additional California requirements and also directs the code user to the applicable law located in the Business and Professions Code. There is no intended change in regulatory effect from the 2013 CRC.

**Section: R610.4.1 Labeling**

**Rationale:** HCD proposes to adopt the above referenced section from the 2015 International Residential Code into the 2016 California Residential Code with amendment. The amendment adds a note referencing California statutory and regulatory requirements for factory built components. The Health and Safety Code, Factory-Built Housing Law, requires that all “factory-built housing,” which includes building components, bear insignia of approval issued by HCD through an HCD-approved third-party agency. As referenced in this section, SIPS are considered factory-built building components, assemblies, or systems manufactured in such a manner that all concealed parts or processes of manufacture cannot be inspected before installation at the building site without disassembly, damage, or destruction of the part. This amendment provides guidance and clarification for labelling and insignia requirement for SIP products installed in California. There is no intended change in regulatory effect.

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**10. CHAPTER 7  
WALL COVERING**

**SECTION R702 INTERIOR COVERING**

**Sections:** R702.7 Vapor retarders  
R702.7.1 Class III vapor retarders

**Table:** R702.7.1 CLASS III VAPOR RETARDERS

**Rationale:** HCD proposes to continue to adopt the above referenced model code sections and bring forward existing California amendments from the 2013 California Residential Code for adoption into the 2016 California Residential Code with modification. The modification deletes the reference to Title 24, Part 6 for consistency with other California codes. HCD proposes to continue to delete Table R702.7.1. The amendments reflect California requirements for vapor retarders and California Climate Zones as used in the California Energy Code (CEC) and will prevent confusion by code users. The original California amendments were proposed by HCD in consultation with the California Energy Commission to ensure the amendments were not in conflict with or become more restrictive than the CEC requirements. There is no intended change in regulatory effect from the 2013 CRC.

### **SECTION R703 EXTERIOR COVERING**

**Section:** R703.1.1 Water resistance

**Rationale:** HCD proposes to continue to adopt the above referenced model code section and bring forward existing California amendments from the 2013 California Residential Code for adoption into the 2016 California Residential Code without modification. The amendment strikes reference to an IRC section and replaces it with a correct reference to the California Energy Code. There is no intended change in regulatory effect from the 2013 CRC.

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## **11. CHAPTER 8 ROOR-CEILING CONSTRUCTION**

### **SECTION R802 WOOD ROOF FRAMING**

**Section:** R802.1.1 (formerly R802.1) Sawn-lumber (formerly Identification)

**Rationale:** HCD proposes to continue to adopt the above referenced model code section and bring forward existing California amendments from the 2013 California Residential Code for adoption into the 2016 California Residential Code without modification. A pointer has been placed within this section directing code users to applicable code provisions in Section R301.1.1.1 addressing limited-density owner-built rural dwellings. This amendment was formerly located in Section R802.1 Identification, which the model code has now split into two sections - R802.1 and R802.1.1 and addresses the same requirement for lumber to be identified by a grade mark. There is no intended change in regulatory effect from the 2013 CRC.

**Section:** R802.1.5.4 (formerly R802.1.3.4) Labeling

**Rationale:** HCD proposes to continue to adopt the above referenced model code section and bring forward existing California amendments from the 2013 California Residential Code for adoption into the 2016 California Residential Code without modification. The amendment deletes "International" and replaces it with "California" to provide the code user a correct reference, the California Building Code. There is no intended change in regulatory effect from the 2013 CRC.

**Section:** R802.10.2 Design

**Rationale:** HCD proposes to continue to adopt the above referenced model code section and bring forward existing California amendments from the 2013 California Residential Code for adoption into the 2016 California Residential Code without modification. There is no intended change in regulatory effect from the 2013 CRC.

### **SECTION R806 ROOF VENTILATION**

**Section:** R806.2 Minimum vent area

**Rationale:** HCD proposes to continue to adopt the above referenced model code section and bring forward existing California amendments from the 2013 California Residential Code for adoption into the 2016 California Residential Code without modification. The model code section references International Energy Conservation Code (IECC) Climate Zones not proposed for adoption by HCD. California has its own energy standards, including climate zone specific references for vapor retarders, which already include 16 defined climate zones. There is no intended change in regulatory effect from the 2013 CRC.

**Section:** R806.5 Unvented attic and unvented enclosed rafter assemblies

**Table:** R806.5 INSULATION FOR CONDENSATION CONTROL

**Rationale:** HCD proposes to adopt the above referenced section and table from the 2015 IRC into the 2016 CRC with new amendments and bring forward existing California amendments. The amendment includes the non-adoption of model code climate zones from the 2012 IRC/2013 CRC into the 2016 CRC and an editorial modification to the reference of the California Energy Code.

HCD proposes to amend R806.5 (4) to add an additional California climate zone where condensation is more likely to occur, based upon recommendation from energy commission staff. Additionally, HCD proposes to add new subsection R806.5 (4.1) to align with the California Energy Commission's proposal in the California Energy Code to allow high performance unvented attics.

HCD proposes to modify an existing California amendment from Section R806.5 (5.1) of the 2013 CRC regarding insulation requirements where roof tiles, wood shakes or shingles, or other roofing with no continuous underlayment is used. This amendment was added to the CRC during the 2006 Triennial Cycle, and is now proposed for modification to provide more clarity to code users based on recommendations from CEC staff that the existing language causes confusion.

HCD proposes to repeal an existing California amendment from Section R806.5 (5.2) of the 2013 CRC regarding R-value of rigid board or sheet insulation, shown in Section R806.5 (5.1.2) as it is unnecessary with HCD's adoption of Table R806.5. HCD proposes to repeal unnecessary model code language from Section R806.5 (5.1.3), and repeal the model code climate zone designations in Table R806.5, and replace these with California Climate Zone designations. IRC Table R806.5 contains IECC national climate zone designations which are not used in the California Building Standards Code.

HCD proposes to amend Table R806.5 as follows:

- Amend the header row of Table R806.5 to change the word "ON" to "OR" as the word ON is incorrect.
- Amend the header row of Table R806.5 to repeal the small letter "a" after "R-Value" which references a footnote which is not proposed for adoption.
- Amend the first row of Table R806.5 to identify the California Climate Zones where there is no need for air-impermeable insulation (for tile roofs only).
- Amend the second and fourth rows of Table R806.5 to repeal model code climate zone designations and identify the California Climate Zones where rigid board or air-impermeable insulation is required for condensation control.
- Not adopt footnotes to Table R806.5.

## **SECTION R807 ATTIC ACCESS**

### **Section: R807.1 Attic access**

**Rationale:** HCD proposes to continue to adopt the above referenced model code section and bring forward existing California amendment from the 2013 California Residential Code for adoption into the 2016 California Residential Code without modification. This model code section references an IRC section not proposed for adoption by HCD. The amendment deletes reference to Section M1305.1.3 and replaces it with a correct reference, the California Mechanical Code. There is no intended change in regulatory effect from the 2013 CRC.

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## **12. CHAPTER 9 ROOF ASSEMBLIES**

### **SECTION R903 WEATHER PROTECTION**

#### **Section: R903.4.1 Secondary (emergency overflow) drains or scuppers**

**Rationale:** HCD proposes to continue to adopt the above referenced model code section and bring forward existing California amendment from the 2013 California Residential Code for adoption into the 2016 California Residential Code without modification. The amendment deletes "Sections 1106 and 1108" and "International" and adds "California" to provide the code user a correct reference. The second paragraph specifying overflow drain connection requirements has been omitted because it conflicts with storm water drainage provisions of the California Plumbing Code. There is no intended change in regulatory effect from the 2013 CRC.

### **SECTION R905 REQUIREMENTS FOR ROOF COVERINGS**

#### **Section: R905.10.3 Material standards**

**Rationale:** HCD proposes to continue to adopt the above referenced model code section and bring forward existing California amendments from the 2013 California Residential Code for adoption into the 2016 California Residential Code without modification. The existing amendment deletes “International” and adds “California” to provide the code user a correct reference, the California Building Code. There is no intended change in regulatory effect from the 2013 CRC.

**Section: R905.16 Photovoltaic shingles**

**Rationale:** HCD proposes to adopt the above referenced section from the 2015 International Residential Code into the 2016 California Residential Code with amendment. The HCD amendment corrects the reference to NFPA 70 to the California Electrical Code as the applicable standard for electrical installations. There is no intended change in regulatory effect from the 2013 CRC.

**SECTION R907 ROOFTOP-MOUNTED PHOTOVOLTAIC SYSTEMS**

**Section: R907.1 Rooftop-mounted photovoltaic systems**

**Rationale:** HCD proposes to adopt the above referenced section from the 2015 International Residential Code into the 2016 California Residential Code with amendment. The HCD amendment corrects the reference to NFPA 70 to the California Electrical Code as the applicable standard for electrical installations.

**SECTION R909 ROOFTOP-MOUNTED PHOTOVOLTAIC PANEL SYSTEMS**

**Section: R909.1 General**

**Rationale:** HCD proposes to adopt the above referenced section from the 2015 International Residential Code into the 2016 California Residential Code with amendment. The HCD amendment corrects the reference to NFPA 70 to the California Electrical Code as the applicable standard for electrical installations.

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**13. CHAPTER 10  
CHIMNEYS AND FIREPLACES**

**SECTION R1001 MASONRY FIREPLACES**

**Section: R1001.3 Seismic reinforcing**

**Section: R1001.4 Seismic anchorage**

**Table R1001.1 SUMMARY OF REQUIREMENTS FOR MASONRY FIREPLACES AND CHIMNEYS**

**Rationale:** HCD proposes to continue to adopt the above referenced model code section and table and bring forward existing California amendments from the 2013 California Residential Code for adoption into the 2016 California Residential Code without modification. The California amendments aligned the 2010 CRC with changes in the 2009 IBC Chapter 21 requiring masonry fireplaces and masonry chimneys in Seismic Design Category “C” to meet seismic reinforcing and anchorage requirements. HCD determined that these IBC provisions should also apply to one-and two-family dwellings under the IRC masonry chimney and masonry fireplace requirements. There is no intended change in regulatory effect from the 2013 CRC.

**SECTION R1003 MASONRY CHIMNEYS**

**Sections: R1003.3 Seismic reinforcing**

**R1003.4 Seismic anchorage**

**Rationale:** HCD proposes to continue to adopt the above referenced model code section and table and bring forward existing California amendments from the 2013 California Residential Code for adoption into the 2016 California Residential Code without modification. See discussion in Sections R1001.3 and R1001.4 for additional details. There is no intended change in regulatory effect from the 2013 CRC.

**Section: R1003.11.3 Gas appliances**

**Rationale:** HCD proposes to continue to adopt the above referenced model code section and table and bring forward existing California amendments from the 2013 California Residential Code for adoption into the 2016 California Residential Code without modification. This model code section references an IRC section not proposed for adoption by HCD. The amendment provides the code user a correct reference, the California Mechanical Code. There is no intended change in regulatory effect from the 2013 CRC.

**Section: R1003.14 Flue area (appliance)**

**Rationale:** HCD proposes to continue to adopt the above referenced model code section and bring forward existing California amendment from the 2013 California Residential Code for adoption into the 2016 California Residential Code without modification. This model code section references an IRC section not proposed for adoption by HCD. The amendment provides the code user a correct reference, the California Mechanical Code. There is no intended change in regulatory effect from the 2013 CRC.

**SECTION R1004 FACTORY-BUILT FIREPLACES**

**Section: R1004.1.1 Factory-built wood burning fireplaces**

**Rationale:** HCD proposes to adopt the above referenced new California amendment into the 2016 California Residential Code. During the 2013 Code Adoption Cycle pointers to mandatory CALGreen requirements were proposed for inclusion into the code to enhance user convenience and familiarity. These pointers may also serve as potential locations for the complete CALGreen requirement in the event that HCD makes the decision in a future rulemaking to discontinue Part 11, CALGreen and incorporate its requirements into other parts of Title 24, the California Building Standards Code.

**Section: R1004.4 Unvented gas log heaters**

**Rationale:** HCD proposes to continue to not adopt the above referenced model code section, and proposes that the section not be printed in the California Residential Code. Health and Safety Code Section 19881 prohibits the sale of unvented heaters in any dwelling house or unit (exceptions apply for electric heaters and decorative gas logs). The California Mechanical Code also prohibits installation, use, maintenance or permitting unvented fuel-burning room heaters in a Group R Occupancy. The CALGreen Code requires all gas fireplaces to be sealed combustion and direct-vent appliances. This International Residential Code provision for unvented gas log heaters appears to be in conflict with existing statute as well as the referenced codes and should not be available as a provision of the California Residential Code to avoid conflict between codes. There is no intended change in regulatory effect from the 2013 CRC.

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**14. Part IV—Energy Conservation**

**CHAPTER 11 ENERGY EFFICIENCY**

HCD proposes to not adopt the 2015 International Residential Code, Part IV Energy Conservation, Chapter 11.

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**15. Part V—Mechanical**

CHAPTER 12	MECHANICAL ADMINISTRATION
CHAPTER 13	GENERAL MECHANICAL SYSTEM REQUIREMENTS
CHAPTER 14	HEATING AND COOLING EQUIPMENT AND APPLIANCES
CHAPTER 15	EXHAUST SYSTEMS
CHAPTER 16	DUCT SYSTEMS
CHAPTER 17	COMBUSTION AIR
CHAPTER 18	CHIMNEYS AND VENTS
CHAPTER 19	SPECIAL APPLIANCES, EQUIPMENT AND SYSTEMS
CHAPTER 20	BOILERS AND WATER HEATERS
CHAPTER 21	HYDRONIC PIPING
CHAPTER 22	SPECIAL PIPING AND STORAGE SYSTEMS
CHAPTER 23	SOLAR THERMAL ENERGY SYSTEMS

HCD proposes to not adopt the 2015 International Residential Code, Part V Mechanical, Chapters 12 through 23.

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**16. Part VI—Fuel Gas**

**CHAPTER 24 FUEL GAS**

HCD proposes to not adopt the 2015 International Residential Code, Part VI Fuel Gas, Chapter 24.

**17. Part VII—Plumbing**

CHAPTER 25	PLUMBING ADMINISTRATION
CHAPTER 26	GENERAL PLUMBING REQUIREMENTS
CHAPTER 27	PLUMBING FIXTURES
CHAPTER 28	WATER HEATERS
CHAPTER 29	WATER SUPPLY AND DISTRIBUTION
CHAPTER 30	SANITARY DRAINAGE
CHAPTER 31	VENTS
CHAPTER 32	TRAPS
CHAPTER 33	STORM DRAINAGE

HCD proposes to not adopt the 2015 International Residential Code, Part VII, Plumbing, Chapters 25 through 33.

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**18. Part VIII—Electrical**

CHAPTER 34	GENERAL REQUIREMENTS
CHAPTER 35	ELECTRICAL DEFINITIONS
CHAPTER 36	SERVICES
CHAPTER 37	BRANCH CIRCUIT AND FEEDER REQUIREMENTS
CHAPTER 38	WIRING METHODS
CHAPTER 39	POWER AND LIGHTING DISTRIBUTION
CHAPTER 40	DEVICES AND LUMINAIRES
CHAPTER 41	APPLIANCE INSTALLATION
CHAPTER 42	SWIMMING POOLS
CHAPTER 43	CLASS 2 REMOTE-CONTROL, SIGNALING AND POWER-LIMITED CIRCUITS

HCD proposes to not adopt the 2015 International Residential Code, Part VIII, Electrical, Chapters 34 through 43.

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**19. Part IX—Referenced Standards**

**CHAPTER 44 REFERENCED STANDARDS**

**Rationale:** HCD proposes to adopt the 2015 International Residential Code, Chapter 44 Reference Standards, into the 2016 California Residential Code with amendment as follows:

HCD proposes amendments to International Code Council listings, which are no longer referenced in the California Residential Code sections noted. The proposed amendments provide the code user additional clarity and consistency for application and enforcement. There is no change in regulatory effect.

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**20. APPENDIX A SIZING AND CAPACITIES OF GAS PIPING**

HCD proposes to not adopt Appendix A of the 2015 International Residential Code.

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**21. APPENDIX B SIZING OF VENTING SYSTEMS SERVING APPLIANCES EQUIPPED WITH DRAFT HOODS, CATEGORY I APPLIANCES, AND APPLIANCES LISTED FOR USE WITH TYPE B VENTS**

HCD proposes to not adopt Appendix B of the 2015 International Residential Code.

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**22. APPENDIX C EXIT TERMINALS OF MECHANICAL DRAFT AND DIRECT-VENT VENTING SYSTEMS**

HCD proposes to not adopt Appendix C of the 2015 International Residential Code.

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**23. APPENDIX D RECOMMENDED PROCEDURE FOR SAFETY INSPECTION OF AN EXISTING APPLIANCE INSTALLATION**

HCD proposes to not adopt Appendix D of the 2015 International Residential Code.

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**24. APPENDIX E MANUFACTURED HOUSING USED AS DWELLINGS**

HCD proposes to not adopt Appendix E of the 2015 International Residential Code.

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**25. APPENDIX F PASSIVE RADON GAS CONTROLS**

HCD proposes to not adopt Appendix F of the 2015 International Residential Code.

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**26. APPENDIX G PIPING STANDARDS FOR VARIOUS APPLICATIONS**

HCD proposes to not adopt Appendix G of the 2015 International Residential Code.

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**27. APPENDIX H PATIO COVERS**

**Rationale:** HCD proposes to adopt Appendix H of the 2015 International Residential Code into the 2016 California Residential Code without amendment. There is no intended change in regulatory effect.

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**28. APPENDIX I PRIVATE SEWAGE DISPOSAL**

HCD proposes to not adopt Appendix I of the 2015 International Residential Code.

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**29. APPENDIX J EXISTING BUILDINGS AND STRUCTURES**

HCD proposes to not adopt Appendix J of the 2015 International Residential Code.

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**30. APPENDIX K SOUND TRANSMISSION**

HCD proposes to not adopt Appendix K of the 2015 International Residential Code. However, HCD proposes to bring forward the existing California amendment, which references the California Building Code for mandatory sound transmission requirements which are applicable to structures built to the California Residential Code.

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**31. APPENDIX L PERMIT FEES**

HCD proposes to not adopt Appendix L of the 2015 International Residential Code.

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**32. APPENDIX M HOME DAY CARE—R-3 OCCUPANCY**

HCD proposes to not adopt Appendix M of the 2015 International Residential Code.

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**33. APPENDIX N VENTING METHODS**

HCD proposes to not adopt Appendix N of the 2015 International Residential Code.

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**34. APPENDIX O AUTOMATIC VEHICULAR GATES**

HCD proposes to not adopt Appendix O of the 2015 International Residential Code.

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**35. APPENDIX P SIZING OF WATER PIPING SYSTEM**

HCD proposes to not adopt Appendix P of the 2015 International Residential Code.

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**36. APPENDIX Q RESERVED**

HCD proposes to not adopt Appendix Q of the 2015 International Residential Code.

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**37. APPENDIX R LIGHT STRAW-CLAY CONSTRUCTION**

HCD proposes to not adopt Appendix R of the 2015 International Residential Code.

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**38. APPENDIX S STRAWBALE CONSTRUCTION**

HCD proposes to adopt Appendix S from the 2015 International Residential Code into the 2016 California Residential code with amendments. The California State Legislature originally approved Strawbale Construction Guidelines as California law in Section 18944.30 et seq. of the Health and Safety Code in 1995. The statutory language specifically stated that it was the intent of the Legislature that these statutory guidelines were to serve as an interim measure pending the evaluation of straw bales as a construction material; determination of construction standards; and the adoption of material and construction standards into the California Building Standards Code. The model code language in Appendix S addresses the same prescriptive requirements found in the statutory guidelines, and in some cases provides more specificity. The model code provides requirements for wall thickness; structural considerations including: live loads, dead loads, compressive strength, attachment to foundations, resistance to wind and uplift forces, seismic design, and fire resistance, and references ASTM Standards.

**SECTION AS102 DEFINITIONS**

**Section:** AS102.1 Definitions

**Rationale:** HCD proposes to adopt the above referenced section with a California amendment which changes the term “International” to “California” for clarity and consistency.

**SECTION AS104 FINISHES**

**Section:** AS104.2 Purpose, and where required

**Rationale:** HCD proposes to adopt the above referenced section with a California amendment which changes the referenced International Climate Zones to the corresponding California Climate Zones.

**SECTION AS105 STRAWBALE WALLS—GENERAL**

**Section:** AS105.6.2 Vapor retarders

**Rationale:** HCD proposes to adopt the above referenced section with a California amendment which changes the referenced International Climate Zones to the corresponding California Climate Zones as referenced in the California Energy Code.

**Section: AS105.6.3 Penetrations in exterior strawbale walls**

**Rationale:** HCD proposes to adopt the above referenced section with a California amendment which changes the referenced International Climate Zones to the corresponding California Climate Zones as referenced in the California Energy Code.

**SECTION AS106 STRAWBALE WALLS—STRUCTURAL**

**Section: AS106.2 Loads and other limitations**

**Section: AS106.13 Braced panels**

**TABLE: AS106.13(1) PLASTERED STRAWBALE BRACED WALL PANEL TYPES**

**Rationale:** HCD proposes to adopt the above referenced section with a California amendment which changes the term International to California for clarity and consistency.

**SECTION AS 107 FIRE RESISTANCE**

**Section: AS107.1 Fire-resistance rating**

**Section: AS107.2 Opening in rated walls**

**Rationale:** HCD proposes to adopt the above referenced section from the 2015 International Residential Code into the 2016 California Residential Code with amendment. The proposed amendment changes the reference from the International Residential Code to the California Residential Code. This amendment is necessary to provide the proper reference to the applicable code.

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**39. APPENDIX T RECOMMENDED PROCEDURE FOR WORST-CASE TESTING OF ATMOSPHERIC VENTING SYSTEMS UNDER N1102.4 OR N1105 CONDITIONS  $\leq 5ACH_{50}$**

HCD proposes to not adopt Appendix T of the 2015 International Residential Code.

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**40. APPENDIX U SOLAR-READY PROVISIONS—DETACHED ONE- AND TWO-FAMILY DWELLINGS, MULTIPLE SINGLE-FAMILY DWELLINGS (TOWNHOUSES)**

HCD proposes to not adopt Appendix U of the 2015 International Residential Code.

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**TECHNICAL, THEORETICAL, AND EMPIRICAL STUDY, REPORT, OR SIMILAR DOCUMENTS:**

(Government Code Section 11346.2(b)(3) requires an identification of each technical, theoretical, and empirical study, report, or similar document, if any, upon which the agency relies in proposing the regulation(s).

None.

**STATEMENT OF JUSTIFICATION FOR PRESCRIPTIVE STANDARDS:**

(Government Code Section 11346.2(b)(1) requires a statement of the reasons why an agency believes any mandates for specific technologies or equipment or prescriptive standards are required.)

HCD is statutorily required to adopt by reference model building codes, which contain prescriptive standards. Prescriptive standards provide the following: explicit guidance for certain mandated requirements; consistent application and enforcement of building standards while also establishing clear design parameters; and ensure compliance with minimum health, safety and welfare standards for owners, occupants and guests.

Performance standards are permitted by state law; however, they must be demonstrated to the satisfaction of the proper enforcing agency.

**CONSIDERATION OF REASONABLE ALTERNATIVES**

(Government Code Section 11346.2(b)(4)(A) requires a description of reasonable alternatives to the regulation and the agency's reasons for rejecting those alternatives. In the case of a regulation that would mandate the use of specific technologies or equipment or prescribe specific action or procedures, the imposition of performance standards shall be considered as an alternate. It is not the intent of this paragraph to require the agency to artificially construct alternatives or describe unreasonable alternatives.)

None. There were no alternatives available to HCD. HCD is required by statute to adopt the model code by reference. The proposed amendments are the only reasonable alternative for updating and clarifying the 2016 CRC.

#### **REASONABLE ALTERNATIVES THE AGENCY HAS IDENTIFIED THAT WOULD LESSEN ANY ADVERSE IMPACT ON SMALL BUSINESS.**

(Government Code Section 11346.2(b)(4)(B) requires a description of any reasonable alternatives that have been identified or that have otherwise been identified and brought to the attention of the agency that would lessen any adverse impact on small business.)

None. There were no alternatives available to HCD. HCD is required by statute to adopt the model code by reference. The proposed amendments have no negative impact on small business.

#### **FACTS, EVIDENCE, DOCUMENTS, TESTIMONY, OR OTHER EVIDENCE OF NO SIGNIFICANT ADVERSE IMPACT ON BUSINESS.**

(Government Code Section 11346.2(b)(5)(A) requires the facts, evidence, documents, testimony, or other evidence on which the agency relies to support an initial determination that the action will not have a significant adverse economic impact on business.)

HCD has determined that this regulatory action would have no significant adverse economic impact on California business enterprises and individuals, including the ability of California businesses to compete with businesses in other states.

#### **ASSESSMENT OF EFFECT OF REGULATIONS UPON JOBS AND BUSINESS EXPANSION, ELIMINATION OR CREATION.**

(Government Code Sections 11346.3(b)(1) and 11346.5(a)(10)).

HCD has assessed whether or not and to what extent this proposal will affect the following:

- The creation or elimination of jobs within the State of California.

**These regulations will not affect the creation, or cause the elimination, of jobs within the State of California.**

- The creation of new businesses or the elimination of existing businesses within the State of California.

**These regulations will not affect the creation or the elimination of existing business within the State of California.**

- The expansion of businesses currently doing business with the State of California.

**These regulations will not affect the expansion of businesses currently doing business within the State of California.**

- The benefits of the regulations to the health and welfare of California residents, worker safety, and the state's environment.

**These regulations will update and improve minimum existing building standards, which will provide increased protection of public health and safety, worker safety and the environment.**

#### **ESTIMATED COST OF COMPLIANCE, ESTIMATED POTENTIAL BENEFITS, AND RELATED ASSUMPTIONS USED FOR BUILDING STANDARDS**

(Government Code Section 11346.2(b)(6)(B)(i) states if a proposed regulation is a building standard, the initial statement of reasons shall include the estimated cost of compliance, the estimated potential benefits, and the related assumptions used to determine the estimates.)

- No increased cost of compliance for those regulations that make only technical and nonsubstantive changes.

- The potential benefits provide recognition and appropriate use of new technologies and materials, clarity for the code users and local enforcement agencies, and may increase business due to the adoption of new building standards.
- Protection of public health and safety, worker safety and the environment.

#### **DUPLICATION OR CONFLICTS WITH FEDERAL REGULATIONS**

(Government Code Section 11346.2(b)(6) requires a department, board, or commission within the Environmental Protection Agency, the Resources Agency, or the Office of the State Fire Marshal to describe its efforts, in connection with a proposed rulemaking action, to avoid unnecessary duplication or conflicts with federal regulations contained in the Code of Federal Regulations addressing the same issues. These agencies may adopt regulations different from these federal regulations upon a finding of one or more of the following justifications: (A) The differing state regulations are authorized by law and/or (B) The cost of differing state regulations is justified by the benefit to human health, public safety, public welfare, or the environment.)

These regulations do not duplicate nor conflict with federal regulations.