

**INITIAL STATEMENT OF REASONS
FOR
PROPOSED BUILDING STANDARDS
OF THE
OFFICE OF THE STATE FIRE MARSHAL**

**REGARDING THE 2016 CALIFORNIA PLUMBING CODE,
CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 5**

TRIENNIAL CODE ADOPTION CYCLE

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:

Section Health and Safety Code Section 18928:

The specific purpose of this rulemaking effort by the Office of the State Fire Marshal is to act accordance with Health and Safety Code section 18928, which requires all proposed regulations to specifically comply with this section in regards to the adoption by reference with amendments to a model code within one year after its publication.

The actions described above are reasonably necessary to carry out the purpose for which it is proposed. The rationale for these actions is to establish minimum requirements for the prevention of fire and for the protection of life and property against fire and panic in occupancies addressed in the 2015 Uniform Plumbing Code and be published as the 2016 California Plumbing Code.

The general purpose of this proposed action is principally intended to update and codify a new edition of the California Plumbing Code (California Code of Regulations, Title 24, Part 5) based upon a more current edition of a model code. The current California Plumbing Code in effect is the 2013 California Plumbing Code which is based upon the 2012 Uniform Plumbing Code of the International Association of Plumbing and Mechanical Officials. This proposed action:

- Repeal the adoption by reference of the 2012 Uniform Plumbing Code and incorporate and adopt by reference in its place the 2015 Uniform Plumbing Code for application and effectiveness in the 2016 California Plumbing Code.
- Repeal certain amendments to the 2012 Uniform Plumbing Code and/or California Building Standards not addressed by the model code that are no longer necessary.
- Adopt new building standards or necessary amendments to the 2015 Uniform Plumbing Code that address inadequacies of the 2015 Uniform Plumbing Code as they pertain to California laws.
- Bring forward previously existing California building standards or amendments, which represent no change in their effect from the 2013 California Building Standards Code.
- Codify non-substantive editorial and formatting amendments from the format based upon the 2012 Uniform Mechanical Code to the format of the 2015 Uniform Plumbing Code.

[0]

**PREFACE
FORMAT OF THE UNIFORM PLUMBING CODE**

Chapter 6 Water Supply and Distribution.

The SFM is proposing to make editorial changes to the preface. The preface has no regulatory effect, but information contained within the preface contradict existing regulations from CRC R313.3.1.1. This information needs to be removed from the preface as an editorial change to ensure that there is no confusion between this non-regulatory information and what is required per the CRC.

[1]

**CHAPTER 1
CALIFORNIA ADMINISTRATION
DIVISION I**

1.1 – 1.1.12

The SFM is proposing to maintain the adoption of those existing California provisions contained Sections 1.1 through 1.1.12 with modification.

1.1.1

The SFM is proposing to repeal the adoption by reference of the 2012 Uniform Plumbing Code and incorporate and adopt by reference in its place the 2015 Uniform Plumbing Code for application and effectiveness in the 2016 California Plumbing Code.

The actions described above are reasonably necessary to carry out the purpose for which it is proposed. The rationale for these actions is to establish minimum requirements for the prevention of fire and for the protection of life and property against fire and panic in occupancies that are addressed in the 2015 Uniform Plumbing Code and proposed for publication as the 2016 California Plumbing Code pursuant to Health and Safety Code Section 13108, 13113, 13114, 13131.5, 13143, 17921, and 18949.2.

[1.1]

The SFM is proposing to maintain the adoption of those existing California provisions contained Sections 1.11.0 through 1.11.10 without modification.

The actions described above are reasonably necessary to carry out the purpose for which it is proposed. The rationale for these actions is to establish minimum requirements for the prevention of fire and for the protection of life and property against fire and panic in occupancies that are addressed in the 2015 Uniform Plumbing Code and proposed for publication as the 2016 California Plumbing Code pursuant to Health and Safety Code Section 13108, 13113, 13114, 13131.5, 13143, 17921, and 18949.2.

[1.2]

DIVISION II

The SFM proposes to not adopt UPC Chapter 1 pursuant to Health and Safety Code Sections 13108, 13113, 13114, 13131.5, 13143, 13143.6, 17921 and 18949.2.

The actions described above are reasonably necessary to carry out the purpose for which it is proposed. The rationale for these actions is to establish minimum requirements for the prevention of fire and for the protection of life and property against fire and panic in occupancies that are addressed in the 2015 Uniform Plumbing Code and proposed for publication as the 2016 California Plumbing Code pursuant to Health and Safety Code Section 13108, 13113, 13114, 13131.5, 13143, 17921, and 18949.2.

[2]

CHAPTER 2 DEFINITIONS

The SFM is proposing the adoption of Chapter 2 without amendment pursuant to Health and Safety Code Sections 13108, 13113, 13114, 13131.5, 13143, 13143.6, 17921 and 18949.2.

The actions described above are reasonably necessary to carry out the purpose for which it is proposed. The rationale for these actions is to establish minimum requirements for the prevention of fire and for the protection of life and property against fire and panic in occupancies that are addressed in the 2015 Uniform Plumbing Code and proposed for publication as the 2016 California Plumbing Code pursuant to Health and Safety Code Section 13108, 13113, 13114, 13131.5, 13143, 17921, and 18949.2.

[3]

CHAPTER 3 GENERAL REGULATIONS

The SFM proposes to adopt Chapter 3 with amendment and California regulation. Furthermore the SFM is maintaining the adoption of those existing California regulations or Sections as amended in Chapter 3 without modification. The SFM is proposing adoption of this Chapter pursuant to Health and Safety Code Sections 13108, 13113, 13114, 13131.5, 13143, 13143.6, 17921 and 18949.2.

310.11

The above Sections as amended or Section containing California regulations are brought forward without modification. There is no change in regulatory effect.

312.7

Rational: SFM is proposing to adopt Chapter 14 - Firestop Protection. Due to changes made in the 2015 UPC from the 2012 UPC, Chapter 14 is now equivalent to the CBC.

The actions described above are reasonably necessary to carry out the purpose for which it is proposed. The rationale for these actions is to establish minimum requirements for the prevention of fire and for the protection of life and property against fire and panic in occupancies that are addressed in the 2015 Uniform Plumbing Code and proposed for publication as the 2016 California Plumbing Code pursuant to Health and Safety Code Section 13108, 13113, 13114, 13131.5, 13143, 17921, and 18949.2.

[4]

CHAPTER 4 PLUMBING FIXTURES AND FIXTURE FITTINGS

The SFM proposes to not adopt Chapter 4 pursuant to Health and Safety Code Sections 13108, 13113, 13114, 13131.5, 13143, 13143.6, 17921 and 18949.2.

The actions described above are reasonably necessary to carry out the purpose for which it is proposed. The rationale for these actions is to establish minimum requirements for the prevention of fire and for the protection of life and property against fire and panic in occupancies that are addressed in the 2015 Uniform Plumbing Code and proposed for publication as the 2016 California Plumbing Code pursuant to Health and Safety Code Section 13108, 13113, 13114, 13131.5, 13143, 17921, and 18949.2.

[5]

CHAPTER 5 WATER HEATERS

The SFM proposes to adopt Chapter 5 with amendment and California regulation. Furthermore the SFM is maintaining the adoption of those existing California regulations or Sections as amended in Chapter 5 without modification. The SFM is proposing adoption of this Chapter pursuant to Health and Safety Code Sections 13108, 13113, 13114, 13131.5, 13143, 13143.6, 17921 and 18949.2.

507.2

The above Sections as amended or Section containing California regulations are brought forward without modification. There is no change in regulatory effect.

The actions described above are reasonably necessary to carry out the purpose for which it is proposed. The rationale for these actions is to establish minimum requirements for the prevention of fire and for the protection of life and property against fire and panic in occupancies that are addressed in the 2015 Uniform Plumbing Code and proposed for publication as the 2016 California Plumbing Code pursuant to Health and Safety Code Section 13108, 13113, 13114, 13131.5, 13143, 17921, and 18949.2.

[6]

CHAPTER 6 WATER SUPPLY AND DISTRIBUTION

The SFM proposes to adopt Sections 603.5.14 and Section 612 of Chapter 6 with amendment and California regulation. Furthermore the SFM is maintaining the adoption of those existing California regulations or Sections as amended in Chapter 6 without modification. The SFM is proposing adoption of this Chapter pursuant to Health and Safety Code Sections 13108, 13113, 13114, 13131.5, 13143, 13143.6, 17921 and 18949.2.

603.5.14, 603.5.14.1, 603.5.14.2, 603.5.14.3

The above Sections as amended or Section containing California regulations are brought forward without modification. There is no change in regulatory effect.

Section 612

Rational: SFM is proposing to adopt Section 612 to provide the designers of with another design option. This section closely matches the CRC and NFPA 13D.

612.2, 612.3.1, 612.3.4, 612.3.8, 612.5.1, 612.5.1.3, 612.5.2, 612.5.2.1, 612.5.2.2

Rational: Correlating Section 612 with existing CRC Section R313 amendments to ensure that fire sprinkler systems requirements for one and two family dwellings are consistent between the CPC, CRC and NFPA 13D.

The actions described above are reasonably necessary to carry out the purpose for which it is proposed. The rationale for these actions is to establish minimum requirements for the prevention of fire and for the protection of life and property against fire and panic in occupancies that are addressed in the 2015 Uniform Plumbing Code and proposed for publication as the 2016 California Plumbing Code pursuant to Health and Safety Code Section 13108, 13113, 13114, 13131.5, 13143, 17921, and 18949.2.

[7]

**CHAPTER 7
SANITARY DRAINAGE**

**CHAPTER 8
INDIRECT WASTES**

**CHAPTER 9
VENTS**

**CHAPTER 10
TRAPS AND INTERCEPTORS**

**CHAPTER 11
STORM DRAINAGE**

The SFM proposes to not adopt Chapters 7 through 11 pursuant to Health and Safety Code Sections 13108, 13113, 13114, 13131.5, 13143, 13143.6, 17921 and 18949.2.

The actions described above are reasonably necessary to carry out the purpose for which it is proposed. The rationale for these actions is to establish minimum requirements for the prevention of fire and for the protection of life and property against fire and panic in occupancies that are addressed in the 2015 Uniform Plumbing Code and proposed for publication as the 2016 California Plumbing Code pursuant to Health and Safety Code Section 13108, 13113, 13114, 13131.5, 13143, 17921, and 18949.2.

[8]

**CHAPTER 12
FUEL PIPING**

The SFM proposes to adopt Chapter 12 with amendment and California regulation. Furthermore the SFM is maintaining the adoption of those existing California regulations or Sections as amended in Chapter 12 without modification. The SFM is proposing adoption of this Chapter pursuant to Health and Safety Code Sections 13108, 13113, 13114, 13131.5, 13143, 13143.6, 17921 and 18949.2.

1211.6

The above Sections as amended or Section containing California regulations are brought forward without modification. There is no change in regulatory effect.

The actions described above are reasonably necessary to carry out the purpose for which it is proposed. The rationale for these actions is to establish minimum requirements for the prevention of fire and for the protection of life and property against fire and panic in occupancies that are addressed in the 2015 Uniform

Plumbing Code and proposed for publication as the 2016 California Plumbing Code pursuant to Health and Safety Code Section 13108, 13113, 13114, 13131.5, 13143, 17921, and 18949.2.

[9]

**CHAPTER 13
HEALTH CARE FACILITIES AND MEDICAL GAS AND VACUUM SYSTEMS**

The SFM is proposing the adoption of Chapter 13 without amendment pursuant to Health and Safety Code Sections 13108, 13113, 13114, 13131.5, 13143, 13143.6, 17921 and 18949.2.

The actions described above are reasonably necessary to carry out the purpose for which it is proposed. The rationale for these actions is to establish minimum requirements for the prevention of fire and for the protection of life and property against fire and panic in occupancies that are addressed in the 2015 Uniform Plumbing Code and proposed for publication as the 2016 California Plumbing Code pursuant to Health and Safety Code Section 13108, 13113, 13114, 13131.5, 13143, 17921, and 18949.2.

[10]

**CHAPTER 14
FIRESTOP PROTECTION**

The SFM is proposing the adoption of Chapter 14 without amendment pursuant to Health and Safety Code Sections 13108, 13113, 13114, 13131.5, 13143, 13143.6, 17921 and 18949.2.

Rational: SFM is proposing to adopt Chapter 14 - Firestop Protection. Due to changes made in the 2015 UPC from the 2013 UPC, Chapter 14 is equivalent to the CBC.

The actions described above are reasonably necessary to carry out the purpose for which it is proposed. The rationale for these actions is to establish minimum requirements for the prevention of fire and for the protection of life and property against fire and panic in occupancies that are addressed in the 2015 Uniform Plumbing Code and proposed for publication as the 2016 California Plumbing Code pursuant to Health and Safety Code Section 13108, 13113, 13114, 13131.5, 13143, 17921, and 18949.2.

[11]

**CHAPTER 15
ALTERNATE WATER SOURCES FOR NONPOTABLE**

**CHAPTER 16
NONPOTABLE RAINWATER CATCHMENT SYSTEMS**

The SFM proposes to not adopt Chapters 15 through 16 pursuant to Health and Safety Code Sections 13108, 13113, 13114, 13131.5, 13143, 13143.6, 17921 and 18949.2.

The actions described above are reasonably necessary to carry out the purpose for which it is proposed. The rationale for these actions is to establish minimum requirements for the prevention of fire and for the protection of life and property against fire and panic in occupancies that are addressed in the 2015 Uniform

Plumbing Code and proposed for publication as the 2016 California Plumbing Code pursuant to Health and Safety Code Section 13108, 13113, 13114, 13131.5, 13143, 17921, and 18949.2.

[12]

**CHAPTER 17
MANDATORY REFERENCED STANDARDS - TABLE 1701.1**

The SFM proposes adopt Chapter 17 pursuant to Health and Safety Code Sections 13108, 13113, 13114, 13131.5, 13143, 13143.6, 17921 and 18949.2.

The actions described above are reasonably necessary to carry out the purpose for which it is proposed. The rationale for these actions is to establish minimum requirements for the prevention of fire and for the protection of life and property against fire and panic in occupancies that are addressed in the 2015 Uniform Plumbing Code and proposed for publication as the 2016 California Plumbing Code pursuant to Health and Safety Code Section 13108, 13113, 13114, 13131.5, 13143, 17921, and 18949.2.

[12]

**APPENDIX A
RECOMMENDED RULES FOR SIZING THE WATER SUPPLY SYSTEM**

**APPENDIX B
EXPLANATORY NOTES ON COMBINATION WASTE AND VENT SYSTEMS**

**APPENDIX D
SIZING STORMWATER DRAINAGE SYSTEMS**

**APPENDIX E
MANUFACTURED/MOBILE HOME PARKS AND RECREATIONAL VEHICLE PARKS**

**APPENDIX F
FIREFIGHTER BREATHING AIR REPLENISHMENT SYSTEMS**

**APPENDIX G
SIZING OF VENTING SYSTEMS**

**APPENDIX H
PRIVATE SEWAGE DISPOSAL SYSTEMS**

**APPENDIX I
INSTALLATION STANDARDS**

**Installation Standard
For
ABS BUILDING DRAIN, WASTE AND VENT PIPE AND FITTINGS
IAPMO IS 5-2006**

IAPMO IS 5, Section 2.2.6

The SFM proposes to maintain the amendment to the above section pursuant to Health and Safety Code Sections 13108, 13113, 13114, 13131.5, 13143, 13143.6, 17921 and 18949.2. Penetrations of fire resistant rated assemblies is addressed in the California Building Code

**APPENDIX J
COMBINATION OF INDOOR AND OUTDOOR COMBUSTION AND VENTILATION OPENING DESIGN**

**APPENDIX K
POTABLE RAINWATER CATCHMENT SYSTEMS**

**APPENDIX L
SUSTAINABLE PRACTICES**

The SFM proposes to not adopt Appendices A through L pursuant to Health and Safety Code Sections 13108, 13113, 13114, 13131.5, 13143, 13143.6, 17921 and 18949.2.

The actions described above are reasonably necessary to carry out the purpose for which it is proposed. The rationale for these actions is to establish minimum requirements for the prevention of fire and for the protection of life and property against fire and panic in occupancies that are addressed in the 2015 Uniform Plumbing Code and proposed for publication as the 2016 California Plumbing Code pursuant to Health and Safety Code Section 13108, 13113, 13114, 13131.5, 13143, 17921, and 18949.2.

[13]

USEFUL TABLES

The SFM proposes to not adopt "Useful Tables" pursuant to Health and Safety Code Sections 13108, 13113, 13114, 13131.5, 13143, 13143.6, 17921 and 18949.2.

The actions described above are reasonably necessary to carry out the purpose for which it is proposed. The rationale for these actions is to establish minimum requirements for the prevention of fire and for the protection of life and property against fire and panic in occupancies that are addressed in the 2015 Uniform Plumbing Code and proposed for publication as the 2016 California Plumbing Code pursuant to Health and Safety Code Section 13108, 13113, 13114, 13131.5, 13143, 17921, and 18949.2.

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

The SFM did not rely on any technical, theoretical, and empirical study, report, or similar documents outside of those contained in this rulemaking in proposing that CBSC adopt said model code as a reference standard for the placement of existing SFM regulatory amendments for the California Building Standards Codes.

STATEMENT OF JUSTIFICATION FOR PRESCRIPTIVE STANDARDS:

The SFM believes that the amendments to the model code any additional building standards proposed are offered in typically both a prescriptive and performance base. The nature and format of the model code adopted by reference afford for both methods, the following is an general overview of the model codes proposed to be adopted by reference as well as state modifications:

This comprehensive fire code establishes minimum regulations for fire prevention and fire protection systems using prescriptive and performance-related provisions. It is founded on broadbased principles that make possible the use of new materials and new system designs.

This code is founded on principles intended to establish provisions consistent with the scope of a building and fire code that adequately protects public health, safety and welfare; provisions that do not unnecessarily increase construction costs; provisions that do not restrict the use of new materials, products or methods of construction; and provisions that do not give preferential treatment to particular types or classes of materials, products or methods of construction.

The Uniform Plumbing Code provisions provide many benefits, among which is the model code development process that offers an international forum for building and fire safety professionals to discuss performance and prescriptive code requirements. This forum provides an excellent arena to debate proposed revisions. This model code also encourages international consistency in the application of provisions.

CONSIDERATION OF REASONABLE ALTERNATIVES

The SFM has determined that no alternative considered would be more effective in carrying out the purpose for which the regulation is proposed or would be as effective and less burdensome to affected private persons than the proposed adoption by reference with SFM amendments. Therefore, there are no alternatives available to the SFM regarding the proposed adoption of this code.

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

The SFM has determined that no alternative available that would be more effective in carrying out the purpose for which the regulation is proposed or would be as effective and less burdensome to affected private persons than the proposed adoption by reference with SFM amendments. Therefore, no alternatives have been identified or that have otherwise been identified and brought to the attention of the SFM that would lessen any adverse impact on small business.

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

The SFM has made an determination that this proposed action will not have a significant adverse economic impact on business. Health and Safety Code Section 18928 requires the SFM, when proposing the adoption of a model code, national standard, or specification shall reference the most recent edition of the applicable model code, national standard, or specification. Therefore, there are no other facts, evidence, documents, testimony, or other evidence on which the SFM relies to support this rulemaking.

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))

The Office of the State Fire Marshal 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 regulation 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

- 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 life and property against fire and panic.

DUPLICATION OR CONFLICTS WITH FEDERAL REGULATIONS

The SFM has determined that this proposed rulemaking action does not unnecessary duplicate or conflict with federal regulations contained in the Code of Federal Regulations that address the same issues as this proposed rulemaking.