

**45-DAY INITIAL STATEMENT OF REASONS  
FOR PROPOSED BUILDING STANDARDS  
OF THE OFFICE OF THE STATE FIRE MARSHAL  
REGARDING THE 2019 CALIFORNIA PLUMBING  
CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 5  
(2018 TRIENNIAL RULEMAKING 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**

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 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.

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 regard 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 2018 Uniform Plumbing Code and be published as the 2019 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 2016 California Plumbing Code which is based upon the 2015 Uniform Plumbing Code. This proposed action:

Repeal the adoption by reference of the 2015 Uniform Plumbing Code and incorporate and adopt by reference in its place the 2018 Uniform Plumbing Code for application and effectiveness in the 2019 California Plumbing Code.

Repeal certain amendments to the 2015 Uniform Plumbing Code not addressed by the model code that are no longer necessary.

Adopt new building standards or necessary amendments to the 2018 Uniform Plumbing Code that address inadequacies of the 2018 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 2016 California Plumbing Code.

Codify non-substantive editorial and formatting amendments from the format based upon the 2015 Uniform Plumbing Code to the format of the 2018 Uniform Plumbing Code.

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[0]

## **PREFACE**

### **FORMAT OF THE UNIFORM PLUMBING CODE**

The SFM is proposing to maintain the existing amendments in the Preface 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 2018 Uniform Plumbing Code and proposed for publication as the 2019 California Plumbing Code pursuant to Health and Safety Code Section 13108, 13113, 13114, 13131.5, 13143, 17921, and 18949.2.

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[1]

## **CHAPTER 1 DIVISION I**

### **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 2015 Uniform Plumbing Code and incorporate and adopt by reference in its place the 2018 Uniform Plumbing Code for application and effectiveness in the 2019 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 2018 Uniform Plumbing Code and proposed for publication as the 2019 California Plumbing Code pursuant to Health and Safety Code Section 13108, 13113, 13114, 13131.5, 13143, 17921, and 18949.2.

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**[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 2018 Uniform Plumbing Code and proposed for publication as the 2019 California Plumbing Code pursuant to Health and Safety Code Section 13108, 13113, 13114, 13131.5, 13143, 17921, and 18949.2.

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**[1.2]**

**CHAPTER 1 DIVISION II  
DIVISION II ADMINISTRATION**

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 2018 Uniform Plumbing Code and proposed for publication as the 2019 California Plumbing Code pursuant to Health and Safety Code Section 13108, 13113, 13114, 13131.5, 13143, 17921, and 18949.2.

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**[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 2018 Uniform Plumbing Code and proposed for publication as the 2019 California Plumbing Code pursuant to Health and Safety Code Section 13108, 13113, 13114, 13131.5, 13143, 17921, and 18949.2.

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[3]

### CHAPTER 3 GENERAL REGULATIONS

The SFM proposes to adopt Chapter 3 and maintain the existing amendments pursuant to Health and Safety Code Sections 13108, 13113, 13114, 13131.5, 13143, 13143.6, 17921 and 18949.2.

#### **310.11, 312.7**

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 2018 Uniform Plumbing Code and proposed for publication as the 2019 California Plumbing Code pursuant to Health and Safety Code Section 13108, 13113, 13114, 13131.5, 13143, 17921, and 18949.2.

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[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 2018 Uniform Plumbing Code and proposed for publication as the 2019 California Plumbing Code pursuant to Health and Safety Code Section 13108, 13113, 13114, 13131.5, 13143, 17921, and 18949.2.

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[5]

## CHAPTER 5 WATER HEATERS

The SFM proposes to adopt Chapter 5 and maintain the existing amendments 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 2018 Uniform Plumbing Code and proposed for publication as the 2019 California Plumbing Code pursuant to Health and Safety Code Section 13108, 13113, 13114, 13131.5, 13143, 17921, and 18949.2.

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[6]

## CHAPTER 6 WATER SUPPLY AND DISTRIBUTION

The SFM proposes to adopt Chapter 6 and maintain the existing amendments pursuant to Health and Safety Code Sections 13108, 13113, 13114, 13131.5, 13143, 13143.6, 17921 and 18949.2.

### 603.5.14, 612.0

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 2018 Uniform Plumbing Code and proposed for

publication as the 2019 California Plumbing Code pursuant to Health and Safety Code Section 13108, 13113, 13114, 13131.5, 13143, 17921, and 18949.2.

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**[7]**

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.

**CHAPTER 7  
SANITARY DRAINAGE**

**CHAPTER 8  
INDIRECT WASTES**

**CHAPTER 9  
VENTS**

**CHAPTER 10  
TRAPS AND INTERCEPTORS**

**CHAPTER 11  
STORM DRAINAGE**

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 2018 Uniform Plumbing Code and proposed for publication as the 2019 California Plumbing Code pursuant to Health and Safety Code Section 13108, 13113, 13114, 13131.5, 13143, 17921, and 18949.2.

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**[8]**

**CHAPTER 12  
FUEL PIPING**

The SFM proposes to adopt Chapter 12 and maintain the existing amendments 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 2018 Uniform Plumbing Code and proposed for publication as the 2019 California Plumbing Code pursuant to Health and Safety Code Section 13108, 13113, 13114, 13131.5, 13143, 17921, and 18949.2.

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**[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 2018 Uniform Plumbing Code and proposed for publication as the 2019 California Plumbing Code pursuant to Health and Safety Code Section 13108, 13113, 13114, 13131.5, 13143, 17921, and 18949.2.

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**[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.

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 2018 Uniform Plumbing Code and proposed for publication as the 2019 California Plumbing Code pursuant to Health and Safety Code Section 13108, 13113, 13114, 13131.5, 13143, 17921, and 18949.2.

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[11]

**CHAPTER 15  
ALTERNATE WATER SOURCES FOR NONPOTABLE**

**CHAPTER 16  
NONPOTABLE RAINWATER CATCHMENT SYSTEMS**

The SFM proposes to not adopt Chapters 15 and 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 2018 Uniform Plumbing Code and proposed for publication as the 2019 California Plumbing Code pursuant to Health and Safety Code Section 13108, 13113, 13114, 13131.5, 13143, 17921, and 18949.2.

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[12]

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

The SFM proposes adopt Chapter 17 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 2018 Uniform Plumbing Code and proposed for publication as the 2019 California Plumbing Code pursuant to Health and Safety Code Section 13108, 13113, 13114, 13131.5, 13143, 17921, and 18949.2.

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[13]

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

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

**APPENDIX C  
ALTERNATE PLUMBING 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**

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

**APPENDIX K  
POTABLE RAINWATER CATCHMENT SYSTEMS**

## **APPENDIX L SUSTAINABLE PRACTICES**

## **APPENDIX M PEAK WATER DEMAND CALCULATOR**

The SFM proposes to not adopt Appendices A through M 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 2018 Uniform Plumbing Code and proposed for publication as the 2019 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**

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).

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**

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.

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 a 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 broad-based 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**

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.

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**

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.

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.

### **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.

The SFM has made a 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:

**A.** The creation or elimination of jobs within the State of California.

N/A

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

N/A

**C.** The expansion of businesses currently doing business within the State of California.

N/A

**D.** The benefits of the regulation to the health and welfare of California residents, worker safety, and the state's environment.

N/A

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

Government Code Section 11346.2(b)(5)(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 non-substantive 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**

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.

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.