

**INITIAL STATEMENT OF REASONS
FOR
PROPOSED BUILDING STANDARDS
OF THE
DIVISION OF THE STATE ARCHITECT**

**REGARDING PROPOSED CHANGES TO
CALIFORNIA REFERENCED STANDARDS CODE & CALIFORNIA PLUMBING CODE
CALIFORNIA CODE OF REGULATIONS, TITLE 24, PARTS 12 & 5**

**REGARDING
EARTHQUAKE-ACTUATED AUTOMATIC GAS SHUTOFF DEVICES**

The Administrative Procedure Act 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 California Administrative Procedures Act (APA) pertains to this particular rulemaking action.

STATEMENT OF SPECIFIC PURPOSE AND RATIONALE FOR PROPOSED CHANGES

The purpose for this proposed change is to repeal out-dated ASCE/SEI Standard 25-97 (Copyright 1998) and adopt up-dated current revision of ANSI/ASCE/SEI Standard 25-06 (Copyright 2008).

ANSI/ASCE/SEI Standard 25-06 provides current minimum functionality requirements for earthquake-actuated automatic gas shut-off devices and systems. This Standard, a thorough revision of ASCE/SEI Standard 25-97, is applicable only to devices carrying gaseous fuels, such as natural gas and propane. The seismic performance requirements established by this new edition are based upon dynamic testing of current devices and in-depth examination of data on ground motions, structural damage, fire initiation, and actuation of existing earthquake shutoff devices.

Standard ANSI/ASCE/SEI 25-06 represents a basic standard for the construction, installation, inspection, and performance of earthquake-actuated automatic gas shutoff devices. An earthquake-actuated device in this standard is a device that directly senses the ground shaking through its sensing means and then at certain levels of the ground motion actuates the gas shutoff means. The standard provides minimum requirements and is designed to allow compliance of earthquake-automated gas shutoff devices that exceed the various provisions specified.

**CALIFORNIA CODE OF REGULATIONS
TITLE 24. BUILDING STANDARDS
PART 12. CALIFORNIA REFERENCED STANDARDS CODE**

CHAPTER 12-16-1

ENGINEERING REGULATION— QUALITY AND DESIGN OF THE MATERIALS OF CONSTRUCTION

This proposed code change replaces “Chapter 12-16-1” with ‘Chapter 12-12’, which reflects the correct chapter number of the 2010 *California Plumbing Code*, Chapter 12

Standard 12-16-1

CALIFORNIA STANDARD FOR EARTHQUAKE-ACTUATED AUTOMATIC GAS SHUTOFF SYSTEMS

This proposed code change replaces “Standard 12-16-1” with ‘12-12-1’, which reflects the correct section number of the 2010 *California Plumbing Code*, Chapter 12. This proposed code change also amends the title of the Standard to read “CALIFORNIA STANDARDS FOR EARTHQUAKE-ACTUATED GAS SHUTOFF VALVES”, which reflects the title of the correct provision in the 2010 *California Plumbing Code*, Chapter 12, Section 1211.18 (Earthquake-Actuated Gas Shutoff Valves).

(See Chapter 16, California Building Code and Chapter 12, California Plumbing Code)

This proposed code change repeals reference to “Chapter 16, California Building Code and” because the provision no longer exist in Chapter 16 of the California Building Code.

Division 1 – CONSTRUCTION

SCOPE

Sec. 12-16-101.

Initial Statement of Reasons (45 Day public Comment Period)
___-10 DSA Earthquake-Actuated Automatic Gas Shut-off Devices

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Sec. 12-16-101.1

This proposed code change replaces "Sec. 12-16-101" with 'Sec. 12-12-101', which reflects the correct section number of the *California Plumbing Code*, Chapter 12. DSA is also proposing to replace 'ASCE 25-97 (Copyright 1998...)' with "ANSI/ASCE/SEI 25-06 (Copyright 2008...)", which reflects the correct new updated Standard. This proposed code change also renumbers Sec. 12-16-101.1 to read Sec. 12-12-101.1.

**CALIFORNIA CODE OF REGULATIONS
TITLE 24. BUILDING STANDARDS
PART 5. CALIFORNIA PLUMBING CODE
1211.18 EARTHQUAKE-ACTUATED GAS SHUTOFF VALVES**

A related code change would also be made in the California Plumbing Code Section 1211.18, which would correct the cross reference to 12-16-1 to read 12-12-1.

**CALIFORNIA CODE OF REGULATIONS
TITLE 21. PUBLIC WORKS
DIVISION 1. DEPARTMENT OF GENERAL SERVICES
CHAPTER 1. OFFICE OF THE STATE ARCHITECT
SUBCHAPTER 5. EARTHQUAKE SENSITIVE GAS SHUTOFF VALVES - CERTIFICATION
SECTIONS 1371, 1372, 1379, 1381**

Another related code change would also be made to CCR, Title 21, Chapter 1, Subchapter 5, Section 1371 which would correct the cross reference to 'S.B. Standard No. 12-16-1' to read "California Referenced Standards Code (CRSC), Standard 12-12-1", this correction would also be made in Sections 1372, 1379, and 1381. Code changes proposed to CCR, Title 21 would be submitted to the Office of Administrative Law.

These amendments are necessary because the provision in Chapter 16 of the California Building Code no longer exists. The only provision with a cross reference to this Standard is in the *California Plumbing Code*, Chapter 12, Section 1211.18 (Earthquake-Actuated Gas Shutoff Valves).

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

The current ANSI/ASCE/SEI Standard 25-06 (Copyright 2008) is the relevant standard identified pursuant to this code change proposal. ASCE Standards provide technical guidelines for promoting safety, reliability, productivity and efficiency across all areas of civil engineering.

CONSIDERATION OF REASONABLE ALTERNATIVES

Alternative to the proposal is to maintain current out-of-date American Society of Civil Engineers requirements for "Earthquake-Actuated Automatic Gas Shut-off Devices" (ASCE 25-97) as the applicable standards used by DSA for the certification of these devices. This proposal is dated.

The performance standard of ANSI/ASCE/SEI Standard 25-06 provides current minimum functionality requirements for earthquake-actuated automatic gas shut-off devices and systems. This Standard, a thorough revision of ASCE/SEI Standard 25-97, is applicable only to devices carrying gaseous fuels, such as natural gas and propane. The seismic performance requirements established by this new edition are based upon dynamic testing of current devices and in-depth examination of data on ground motions, structural damage, fire initiation, and actuation of existing earthquake shutoff devices. This alternative is up to date.

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

The Division of the State Architect has not identified any reasonable alternatives to the proposed action, and no adverse impacts to small business are expected as a result of this proposed action.

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

The Division of the State Architect has no evidence indicating any potential significant adverse impact on business with regard to this proposed action.

DUPLICATION OR CONFLICTS WITH FEDERAL REGULATIONS

The regulations proposed for adoption do not duplicate or conflict with federal regulations.