

**FINAL EXPRESS TERMS
FOR
PROPOSED BUILDING STANDARDS
OF THE
CALIFORNIA BUILDING STANDARDS COMMISSION (CBSC)**

**REGARDING CHANGES TO
THE 2019 CALIFORNIA ELECTRICAL CODE
CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 3**

(BSC 01/17)

The State agency shall draft the regulations in plain, straightforward language, avoiding technical terms as much as possible and using a coherent and easily readable style. The agency shall draft the regulation in plain English. A notation shall follow the express terms of each regulation listing the specific statutes authorizing the adoption and listing specific statutes being implemented, interpreted, or made specific (Government Code Section 11346.2(a)(1)).

LEGEND FOR EXPRESS TERMS (Based on model codes - Parts 2, 2.5, 3, 4, 5, 9, 10)

1. Model Code language appears upright.
 2. Existing California amendments appear in *italics*.
 3. Amended model code or new California amendments appear *underlined and in italics*.
 4. Repealed model code language appears upright and in ~~strikeout~~.
 5. Repealed California amendments appear in ~~*italics and strikeout*~~.
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ITEM 1. CBSC proposes to bring forward existing California amendments in Article 89, Section 89.101 through 89.101.12 from the 2016 California Electrical Code for adoption into the 2019 edition of the California Electrical Code with additional amendments as follows:

**CALIFORNIA ARTICLE 89
GENERAL CODE PROVISIONS**

Section 89.101 General

89.101.1 Title. *These regulations shall ...*

89.101.2 Purpose. *The purpose of this code is to establish the minimum requirements to safeguard the public health, safety and general welfare through structural strength,*

means of egress facilities, stability, access to persons with disabilities, sanitation, adequate lighting and ventilation, and energy conservation; safety to life and property from fire and other hazards attributed to the built environment; and to provide safety to fire fighters and emergency responders during emergency operations.

89.101.3 Scope. *The provisions of this code shall apply to the construction, alteration, movement, enlargement, replacement, repair, equipment, use and occupancy, location, maintenance, removal and demolition of every building or structure or any appurtenances connected or attached to such building or structures throughout the State of California.*

89.101.3.1 Nonstate-Regulated Buildings, Structures, and Applications.

Except as modified by local ordinance pursuant to Section 89.101.8, the building standards in the California Code of Regulations, Title 24, Parts 2, 2.5, 3, 4, 5, 6, 9, 10 and 11 shall apply to all occupancies and applications not regulated by a state agency.

89.101.3.2 State-Regulated Buildings, Structures, and Applications. *The model code, state amendments to the model code, and/or state amendments where there are no relevant model code provisions, shall apply to the following buildings, structures, and applications regulated by state agencies as specified in Sections 89.102 through 89.114, except where modified by local ordinance pursuant to Section 89.101.8. When adopted by a state agency, the provisions of this code shall be enforced by the appropriate enforcing agency, but only to the extent of authority granted to such agency by the state legislature.*

Note: *See Preface to distinguish the model code provisions from the California provisions.*

- 1. State-owned buildings, including buildings constructed by the Trustees of the California State University, and to the extent permitted by California laws, buildings designed and constructed by the Regents of the University of California, and regulated by the Building Standards Commission. See Section 89.102 for additional scope provisions.*
- 2. Section 89.103 is reserved for the Board of State and Community Corrections.*
- 3. Section 89.104 is reserved for the Department of Consumer Affairs.*
- 4. Section 89.105 is reserved for the California Energy Commission.*
- 5. Section 89.103 is reserved...*

6. *Organized camps, laboratory ...*
7. *Hotels, motels, lodging houses,...*
8. *Accommodations for persons ...*
9. *Permanent buildings ...*
10. *Accommodations for persons ...*
11. *Public elementary...*
12. *Qualified historical...*
13. *General acute care hospitals, acute psychiatric hospitals, skilled nursing and/or intermediate care facilities, clinics licensed by the California Department of Public Health (DPH) and correctional treatment centers regulated by the Office of Statewide Health Planning and Development. See Section 89.110 for additional scope provisions.*
14. *Applications regulated by the Office of the State Fire Marshal include, but are not limited to, the following in accordance with Section 89.111:*
 1. *Buildings or structures used or intended for use as an:*
 - 1.1. *Asylum, jail.*
 - 1.2. *Mental hospital, hospital, home for the elderly, children's nursery, children's home or institution, school or any similar occupancy of any capacity.*
 - 1.3. *Theater, dancehall, skating rink, auditorium, assembly hall, meeting hall, nightclub, fair building, or similar place of assemblage where 50 or more persons may gather together in a building, room or structure for the purpose of amusement, entertainment, instruction, deliberation, worship, drinking or dining, awaiting transportation, or education.*
 - 1.4. *Small family day care homes, large family day care homes, residential facilities and residential facilities for the elderly and residential care facilities.*
 - 1.5. *State institutions or other state-owned or state-occupied buildings.*
 - 1.6. *High rise structures.*
 - 1.7. *Motion picture production studios.*
 - 1.8. *Organized camps.*
 - 1.9. *Residential structures.*

2. *Tents, awnings or other fabric enclosures used in connection with any occupancy.*
3. *Fire alarm devices, equipment and systems in connection with any occupancy.*
4. *Hazardous materials, flammable and combustible liquids.*
5. *Public school automatic fire detection, alarm, and sprinkler systems.*
6. *Wildland-Urban Interface (WUI) fire areas.*

15. *Section 89.112 is reserved for the State Librarian.*

16. *Section 89.113 is reserved for the Department of Water Resources.*

17. *Section ...*

89.101.3.3 Exempted from this Code. *This code does ...*

(A) 1. ...

(B) 2. ...

(C) 3. ...

(D) 4. ...

(E) 5. *Installations under the exclusive control ...*

Exception to (D)4 and (E)5: *In places of employment, ...*

(F) 6. *Installations on highways or bridges.*

89.101.4 Annexes. *Provisions contained in the annexes of this code shall not apply unless specifically adopted by a state ...*

89.101.5 Referenced Codes. *The codes, standards ...*

89.101.6 Non-Building Standards, Orders and Regulations. *Requirements contained in the National Electrical Code, or in any other referenced standard, ...*

89.101.7 Order of Precedence and Use.

89.101.7.1 Differences. *In the event of any ...*

89.101.7.2 Specific Provisions. *Where a specific provision...*

89.101.7.3 Conflicts. *When the requirements ...*

Exception: *Detached one-and two-family ...*

89.101.8 City, County, or City and County Amendments, Additions or Deletions.
The provisions of this code do not limit the authority of city, ...

Local modifications shall comply with ...

89.101.8.1 Findings and Filings.

1. *The city, county, or city and ...*

Exception: *Hazardous ...*

2. *The city, county, ...*

3. *Findings prepared by ...*

89.101.8.2 Locally adopted energy standards – California Energy Code, Part 6.

In addition to the provisions of Section 89.101.8.1 of this Part, the provisions of this section ~~applies~~ apply to cities, counties, and ~~city~~ cities and ~~county~~ counties amending adopted energy standards affecting buildings and structures subject to the California Energy Code, Part 6.

...

89.101.9 Effective Date of this Code. *Only those standards approved by the California Building Standards Commission that are effective...*

89.101.10 Availability of Codes. *At least one complete copy each of Titles 8, 19, 20, 24, and 25 with all revisions shall be maintained in the office ...*

89.101.11 Format. *This part fundamentally adopts...*

Note: Matrix Adoption Tables...

89.101.12 Validity. *If any chapter, article, section,...*

SECTION 89.102
BUILDING STANDARDS COMMISSION

89.102.1. *If any chapter, article, sec*

1. State buildings for all occupancies.

Application – *State buildings (all occupancies), including buildings...*

...

2. University of California, California State Universities, and California Community Colleges.

Application – *Standards for lighting for parking lots and primary campus walkways at the University of California,...*

...

3. Existing State-Owned Buildings, including those owned by the University of California and by the California State University– Building seismic retrofit standards including...

...

4. Unreinforced Masonry Bearing Wall Buildings.

Application – *Minimum seismic strengthening standards for...*

...

89.102.1.1 State building. *For purposes of ...*

89.102.1.2 Enforcement. *[CSU, UC, Judicial Council...*

Exception: *State buildings regulated by other ...*

89.102.1.3 Enforcement, Reserved for DGS.

89.102.1.4 Adopting agency identification. *The provisions of...*

89.102.2 BSC-CG. *Specific scope of application of the agency responsible for enforcement, the enforcement agency, and the specific authority to adopt and enforce such provisions of this code, unless otherwise stated.*

89.102.2.1 Green buildings standards for nonresidential occupancies.

Application – *All occupancies where no other state agency has the authority to adopt green building standards applicable to those occupancies.*

Enforcing agency – *State or local agency specified by the applicable provisions of law.*

Authority cited – *Health and Safety Code Sections 18930.5 (a), 18938 and 18940.5.*

Reference – *Health and Safety Code, Division 13, Part 2.5, commencing with Section 18901.*

89.102.2.2 Graywater systems for nonresidential occupancies.

Application – *The construction, installation, and alteration of graywater systems for indoor and outdoor uses in nonresidential occupancies*

Enforcing agency – *State or local agency specified by the applicable provisions of law.*

Authority cited – *Health & Safety Code Section 18941.8.*

Reference – *Health & Safety Code Section 18941.8.*

89.102.2.3 Adopting agency identification. *The provisions of this code applicable to buildings identified in this section will be identified in the Matrix Adoption Tables under the acronym **BSC-CG**.*

89.102.3 Alternative Materials, Design and Methods of Construction and Equipment.

The provisions of this code are not intended ...

89.102.3.1 Research reports. *Supporting data,...*

89.102.3.2 Tests. *Whenever there is insufficient evidence of compliance with the provisions of this code, or evidence that a material or method does not conform*

Notation:

Authority: Government Code §14617; Health and Safety Code § 16600, 18928, 18930.5, 18934.5, 18938 & 18941.8

References: Government Code §14617; Health and Safety Code §§16600 & 18901-18949

ITEM 2. CBSC proposes to bring forward existing California amendments in Section 89.103 through 89.114 from the 2016 California Electrical Code for adoption into the 2019 edition of the California Electrical Code:

**SECTION 89.103
RESERVED FOR BOARD OF STATE AND COMMUNITY CORRECTIONS**

...

**SECTION 89.114
RESERVED FOR THE CALIFORNIA STATE LANDS COMMISSION**

Notation:

Authority: Health & Safety Code Sections 18928 and 18930

Reference(s): Health & Safety Code Sections 18928, 18928.1 and 18934.5

ITEM 3. CBSC proposes to Adopt ARTICLE 90 from the 2017 National Electrical Code, without amendments:

ARTICLE 90 - Introduction

...

Notation

Authority: Health & Safety Code Sections 18928 and 18934.5

Reference(s): Health & Safety Code Sections 18928, 18928.1, and 18934.5

ITEM 4. CBSC proposes to adopt CHAPTER 1, ARTICLES 100 and 110 from the 2017 National Electrical Code with existing California amendments into the 2019 edition of the California Electrical Code:

**CHAPTER 1 GENERAL
ARTICLE 100 Definitions**

...

Ballasted Solar Photovoltaic System [BSC] *A roof mounted system composed of solar photovoltaic panels and supporting members that are unattached or partially attached to the roof and must rely on their weight, aerodynamics and friction to counter the effect of wind and seismic forces.*

...

**CHAPTER 1 GENERAL
ARTICLE 110 Requirements for Electrical Installations**

...

SECTION 110.13 Mounting and Cooling of Equipment

(A) Mounting. Electrical equipment shall be firmly secured to the surface on which it is mounted. Wooded plugs driven into holes in masonry, concrete, plaster, or similar materials shall not be used.

Exception: [BSC] *Roof mounted ballasted solar photovoltaic systems provided that the wiring and interconnections are designed to accommodate for maximum system displacement.*

...

Notation

Authority: Health & Safety Code Sections 18928 and 18934.5

Reference(s): Health & Safety Code Sections 18928, 18928.1 and 18934.5

ITEM 5. CBSC proposes to adopt Chapters 2 through 4 (All Articles) from the 2017 National Electrical Code, without amendments:

CHAPTER 2 - Wiring and Protection, CHAPTER 3 - Wiring Methods and Materials, and CHAPTER 4 - Equipment for General Use

...

Notation

Authority: Health & Safety Code Sections 18928 and 18934.5

Reference(s): Health & Safety Code Sections 18928, 18928.1 and 18934.5

ITEM 6. CBSC proposes to adopt Chapter 5 from the 2017 National Electrical Code, but not to adopt ARTICLES 517- Health Care Facilities, or 550 - Mobile Homes, Manufactured Homes, and Mobile Home Parks:

**CHAPTER 5
Special Occupancies**

...

Notation

Authority: Health & Safety Code Sections 18928 and 18934.5

Reference(s): Health & Safety Code Sections 18928, 18928.1 and 18934.5

ITEM 7. CBSC proposes to adopt Chapter 6 from the 2017 National Electrical Code, with existing California amendments into the 2019 edition of the California Electrical Code:

**CHAPTER 6
Special Equipment**

**ARTICLE 625
Electric Vehicle Charging System**

...

625.1.1 [BSC-CG] Electric Vehicle (EV) Charging for New Construction. *In addition to requirements in this Article, electric vehicle charging shall comply with the California Green Building Standards Code (CALGreen) Chapter 5, Division 5.1.*

...

Notation

Authority: Health & Safety Code Sections 18928 and 18934.5

Reference(s): Health & Safety Code Sections 18928, 18928.1 and 18934.5

ITEM 8. CBSC proposes to adopt Chapters 7 through 9 from the 2017 National Electrical Code without amendments however BSC proposes to not adopt articles 708, 726, 750, and 840.

**CHAPTER 7 – Special Conditions, CHAPTER 8 – Communications Systems, and
CHAPTER 9 - Tables**

...

Notation

Authority: Health & Safety Code Sections 18928 and 18934.5

Reference(s): Health & Safety Code Sections 18928, 18928.1 and 18934.5

ITEM 9. CBSC proposes not to adopt the Annexes from the 2017 National Electrical Code:

...

Notation:

Authority: Health & Safety Code Sections 18928 and 18934.5

Reference(s): Health & Safety Code Sections 18928, 18928.1 and 18934.5