APPROVED BY THE CALIFORNIA BUILDING STANDARDS COMMISSION

DECEMBER 14, 2021

# FINAL EXPRESS TERMS FOR PROPOSED BUILDING STANDARDS OF THE CALIFORNIA BUILDING STANDARDS COMMISSION REGARDING THE 2022 CALIFORNIA ELECTRICAL CODE,

# CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 3

# (BSC 01/20)

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)).

If using assistive technology, please adjust your settings to recognize underline, strikeout, italics and ellipsis.

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

* Model Code language appears upright
* Existing California amendments appear in *italic*
* Amended model code or new California amendments appear *underlined & italic*
* Repealed model code language appears ~~upright and in strikeout~~
* Repealed California amendments appear in *~~italic and strikeout~~*
* Ellipsis ( ...) indicate existing text remains unchanged

# FINAL EXPRESS TERMS

# ITEM 1

# *Article 89, General Code Provisions*

BSC proposes to bring forward existing California amendments in Article 89, Section 89.101 through 89.102.3.2 from the 2019 California Electrical Code for adoption into the 2022 edition of the California Electrical Code with additional amendments as follows**:**

***CALIFORNIA ARTICLE 89***

***GENERAL CODE PROVISIONS***

***89.101.1 Title.*** *These regulations shall be known as the California Electrical Code, may be cited as such and will be referred to herein as “this code.” The California Electrical Code is Part 3 of thirteen parts of the official compilation and publication of the adoption, amendment, and repeal of electrical regulations to the California Code of Regulations, Title 24, also referred to as the California Building Standards Code. This*

*part incorporates by adoption the ~~2017~~ 2020 National Electrical Code of the National Fire Protection Association with necessary California amendments.*

***89.101.2 Purpose.*** *The purpose of this code … [No change to existing California amendment]*

***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 ~~an~~ any appurtenances connected or attached to such ~~building~~ buildings or structures throughout the State of California.*

***89.101.3.1 Nonstate-Regulated Buildings, Structures, and Applications.*** *Except as modified by local … [No change to existing California amendment]*

***89.101.3.2 State-Regulated Buildings, Structures, and Applications.*** *The model code, state amendments …*

*Note: See ~~Preface to distinguish the model code provisions from the California provisions~~ “How to Distinguish Between Model Code Language and California Amendments” in the front of the code.*

*1 through 13 [No change to existing California amendment]*

1. *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, prison.*

*1.2 -1.9 [No change to existing California amendment]*

*2 through 6 [No change to existing California amendment]*

*15 through 17 [No change to existing California amendment]*

***89.101.3.3 Exempted from This Code.*** *This code does not cover: …*

*1 through 6 [No change to existing California amendment]*

***89.101.4 Annexes.*** *Provisions contained in … [No change to existing California amendment]*

***89.101.5 Referenced Codes.*** *The codes, standards … [No change to existing California amendment]*

***89.101.6 Non-Building Standards, Orders and Regulations.*** *Requirements contained … [No change to existing California amendment]*

***89.101.7 Order of Precedence and Use.***

***89.101.7.1 Differences.*** *In the event of any … [No change to existing California amendment]*

***89.101.7.2 Specific Provisions.*** *Where a specific provision… [No change to existing California amendment]*

***89.101.7.3 Conflicts.*** *When the requirements … [No change to existing California amendment]*

***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, county, or city and county governments to establish more restrictive and reasonably necessary differences to the provisions contained in this code pursuant to complying with Section 89.101.8.1. The effective date of amendments, additions, or deletions to this code by a city, county, or city and county filed pursuant to Section 89.101.8.1 shall be the date filed. However, in no case shall the amendments, additions, or deletions to this code be effective any sooner than the effective date of this code.*

***89.101.8.1 Findings and Filings.*** *The city, county, or city and … [No change to existing California amendment]*

***89.101.8.2 Locally Adopted Energy Standards – California Energy Code, Part 6.*** *In addition to the provisions … [No change to existing California amendment]*

***89.101.9 Effective Date of This Code.*** *Only those standards … [No change to existing California amendment]*

***89.101.10 Availability of Codes.*** *At least one complete copy … [No change to existing California amendment]*

***89.101.11 Format.*** *This part fundamentally adopts… [No change to existing California amendment]*

***89.101.12 Validity.*** *If any chapter, article, section, … [No change to existing California amendment]*

**SECTION 89.102**

**BUILDING STANDARDS COMMISSION**

***89.102.1*** *BSC Specific scope of application … [No change to existing California amendment]*

1. ***State Buildings for All Occupancies.***

***Application*** *– State buildings (all occupancies), … [No change to existing California amendment]*

1. ***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, California State Universities, and California Community Colleges.*

*. . .*

***89.102.1.1 State building.*** *For purposes of this code, a … [No change to existing California amendment]*

***89.102.1.2 Enforcement.*** *[CSU, UC, Judicial Council… [No change to existing California amendment]*

***89.102.1.3 Enforcement, Reserved for DGS.***

***89.102.1.4 Adopting agency identification.*** *The provisions … [No change to existing California amendment]*

***89.102.2 BSC-CG.*** *Specific scope of application … [No change to existing California amendment]*

***89.102.2.1 Green Building Standards for Nonresidential Occupancies.***

***Application*** *– All occupancies where no other state agency … [No change to existing California amendment]*

***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 … [No change to existing California amendment]*

***89.102.2.3 Adopting Agency Identification.*** *The provisions of this … [No change to existing California amendment]*

***89.102.3 Alternative Materials, Design and Methods of Construction and Equipment.*** *The provisions of this code are not intended … [No change to existing California amendment]*

***89.102.3.1 Research Reports****. Supporting data, where … [No change to existing California amendment]*

***89.102.3.2 Tests.*** *Whenever there is insufficient evidence of compliance … [No change to existing California amendment]*

**Notation:**

Authority: Health & Safety Code Sections 18928, 18928(b), 18928.1, 18930, 18930.5, 18934.5, 18938, & 18949.6

Reference(s): Health & Safety Code Sections 18928, 18928(b), 18928.1, 18930, 18934.5, & 18949.6ITEM 2

# Article 90 – Introduction

BSC proposes to Adopt ARTICLE 90 from the 2020 National Electrical Code, without amendments into the 2022 edition of the California Electrical Code.

**ARTICLE 90 - Introduction**

**Notation:**

Authority: Health & Safety Code Sections 18928, 18928(b), 18928.1, 18930.5, 18934.5, 18938, and 18949.6

Reference(s): Health & Safety Code Sections 18928, 18928(b), 18928. 1, and 18934.5, & 18949.6

# ITEM 3

# Chapter 1 General

BSC proposes to adopt CHAPTER 1, ARTICLES 100 and 110 from the 2020 National Electrical Code and to bring forward existing California amendments, as shown in the Express Terms, without change into the 2022 edition of the California Electrical Code. This action provides general provisions and specific state amendments for electrical systems used throughout the state.

**Chapter 1 General**

**ARTICLE 100 Definitions**

. . .

***Ballasted Solar Photovoltaic System [BSC]*** *A roof mounted system … [No change to existing California amendment]*

. . .

**ARTICLE 110 Requirements for Electrical Installations**

**110.13 Mounting and Cooling of Equipment.**

1. **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 [No change to existing California amendment]*

**Notation:**

Authority: Health & Safety Code Sections 18928, 18928(b), 18928.1, 18930.5, 18934.5, 18938, and 18949.6

Reference(s): Health & Safety Code Sections 18928, 18928(b), 18928. 1, and 18934.5, & 18949.6

# ITEM 4

# Chapter 2 Wiring and Protection, Chapter 3 Wiring Methods and Materials, Chapter 4 Equipment for General Use

BSC proposes to adopt Chapters 2 through 4 (All Articles) from the 2020 National Electrical Code, without amendments into the 2022 edition of the California Electrical Code. By adopting these articles BSC meets the statutory mandate to adopt the model code provisions for the code users of California.

**Chapter 2 - Wiring and Protection**

**Chapter 3 - Wiring Methods and Materials**

**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 5

# Chapter 5 Special Occupancies

BSC proposes to adopt Chapter 5 from the 2020 National Electrical Code, but not to adopt ARTICLES 517- Health Care Facilities, or 550 - Mobile Homes, Manufactured Homes, and Mobile Home Parks into the 2022 edition of the California Electrical Code. Articles 517 and 550 are adopted by the state agencies that have statutory authority to adopt electrical provisions for health care facilities and mobile home manufacturing and mobile home parks.

**Chapter 5 - Special Occupancies**

**Notation:**

Authority: Health & Safety Code Sections 18928, 18928.1, 18930.5, 18934.5, 18938, and 18949.6

Reference(s): Health & Safety Code Sections 18928, 18928. 1, and 18934.5, & 18949.6

# ITEM 6

# Chapter 6 Special Equipment

BSC proposes to adopt Chapter 6 from the 2020 National Electrical Code, with existing California amendments to Section *625.1.1* to be moved forward without change into the 2022 edition of the California Electrical Code. This actionaids the code user in identifying additional provisions for electrical vehicle charging systems located in other parts of Title 24.

**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 … [No change to existing California amendment]*

***. . .***

**Notation:**

Authority: Health & Safety Code Sections 18928, 18928(b), 18928.1, 18930.5, 18934.5, 18938, and 18949.6

Reference(s): Health & Safety Code Sections 18928, 18928(b), 18928. 1, and 18934.5, & 18949.6

# ITEM 7

# Chapter 7 Special Conditions, Chapter 8 Communications Systems, Chapter 9 Tables

BSC proposes to adopt Chapters 7 through 9 from the 2020 National Electrical Code without amendments. However, BSC proposes to not adopt articles 708, 728, 750, and 840 in the 2022 edition of the California Electrical Code. This regulatory action by BSC meets the statutory mandate to adopt the model code provisions for the code users of California.

**Chapter 7 – Special Conditions**

**Chapter 8 – Communications Systems**

**Chapter 9 - Tables**

**Notation:**

Authority: Health & Safety Code Sections 18928, 18928(b), 18928.1, 18930.5, 18934.5, 18938, and 18949.6

Reference(s): Health & Safety Code Sections 18928, 18928(b), 18928.1, and 18934.5, & 18949.6

# ITEM 8

# ANNEX A, B, C, D, E, F, G, H, I, & J

BSC proposes not to adopt the Annexes from the 2020 National Electrical Code into the 2022 edition of the California Electrical Code. The Annexes are not part of the body of the adopted model code unless specifically identified for adoption in the matrix adoption tables. By not adopting the Annexes, BSCmaintains the appropriate procedure for Annex adoption by local jurisdictions as needed.

. . .

ANNEXES A, B, C, D, E, F, G, H, I, & J

**Notation:**

Authority: Health & Safety Code Sections 18928 and 18934.5

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