

EXHIBIT 85

2019 CALIFORNIA ELECTRICAL CODE

CALIFORNIA CODE OF REGULATIONS
TITLE 24, PART 3

Based on the 2017 National Electrical Code®

<< First

< Prev

Table of Contents

Next >

Last >>



Δ π EXHIBIT	4
Marcelli	
Deponent	8-19-19
Date	Rptr.
WWW.DEPBOOK.COM	

NFPA Viewer

3 of 1084

Portions of this publication are reproduced with permission from the National Electrical Code®, 2017 edition, copyright © 2016 National Fire Protection Association, Quincy, MA 02169. All rights reserved. No portions of NEC® material may be reproduced except with permission of the National Fire Protection Association.

ISBN 978-1-55701-914-1

Copyright © to 2016 National Electrical Code Held By
National Fire Protection Association
1 Batterymarch Park (P.O. Box 9146)
Quincy, MA 02269-9959
Printed in The United States

<< First < Prev Table of Contents Next > Last >>

 NFPA

Preface

This document is Part 3 of thirteen parts of the official triennial compilation and publication of the adoptions, amendments and repeal of administrative regulations to *California Code of Regulations, Title 24*, also referred to as the *California Building Standards Code*. This Part is known as the *California Electrical Code* and incorporates, by adoption, the 2017 edition of the *National Electrical Code* of the National Fire Protection Association with the California amendments.

The *California Building Standards Code* is published in its entirety every three years by order of the California legislature, with supplements published in intervening years. The California legislature delegated authority to various State agencies, boards, commissions and departments to create building regulations to implement the State's statutes. These building regulations or standards, have the same force of law, and take effect 180 days after their publication unless otherwise stipulated. *The California Building Standards Code* applies to occupancies in the State of California as annotated.

A city, county, or city and county may establish more restrictive building standards reasonably necessary because of local climatic, geological or topographical conditions. Findings of the local condition(s) and the adopted local building standard(s) must be filed with the California Building Standards Commission to become effective and may not be effective sooner than the date filed with the California Building Standards Commission and in no case sooner than the effective date of this edition of *California Building Standards Code*. Local building standards that were adopted and applicable to previous editions of the *California Building Standards Code* do not apply to this edition without appropriate adoption and the required filing.

To familiarize yourself with the format of this code, it is suggested that users review the following contents:

- How To Distinguish Model Code Language From California Amendments
- Matrix Adoption Tables, located at the beginning of each chapter.

Should you find publication (e.g., typographical) errors or inconsistencies in this code or wish to offer comments toward improving its format, please address your comments to:

California Building Standards Commission
2525 Natomas Park Drive, Suite 130
Sacramento, CA 95833-2936

Phone: (916) 263-0916

Web Page: www.dgs.ca.gov/bse

Email: cbsc@dgs.ca.gov

<< First

< Prev

Table of Contents

Next >

Last >>



Acknowledgements

The 2019 *California Electrical Code* (Code) was developed through the outstanding collaborative efforts of the Department of Housing and Community Development, Division of State Architect, Office of the State Fire Marshal, Office of Statewide Health Planning and Development, California Energy Commission, California Department of Public Health, California State Lands Commission, Board of State and Community Corrections, and the California Building Standards Commission (Commission).

This collaborative effort included the assistance of the Commission's Code Advisory Committees and many other volunteers who worked tirelessly to assist the Commission in the production of this Code.

Governor Edmund G. Brown Jr.
Members of the Building Standards Commission

Secretary Marybel Batjer — Chair
Steven Winkel — Vice-Chair

Raj Patel
Elley Klausbruckner
Larry Booth
Juvilyn Alegre

Erick Mikiten
Kent Sasaki
Peter Santillan

Mia Marvelli — Executive Director
Michael L. Nearman — Deputy Executive Director

For questions on California state agency amendments; please refer to the contact list on the following page.

<< First

< Prev

Table of Contents

Next >

Last >>



How to Distinguish Between Model Code Language and California Amendments

To distinguish between model code language and the incorporated California amendments, including exclusive California standards, California amendments will appear in italics.

Symbols in the margins indicate the status of code changes as follows:

(SFM) This symbol identifies which State agency(s), by its "acronym", has amended a section of the model code. For a complete listing of the State agency acronyms, see the Application Section within Chapter 1.

C

This symbol indicates a California amendment has been made to the model code.



This symbol indicates that a change has been made to a California amendment.

>

This symbol indicates deletion of California language.

NOTATIONS USED IN THE NATIONAL ELECTRICAL CODE

The following notation appears in the *National Electrical Code* to aid the user:

Changes other than editorial are indicated with gray shading within sections. An entire figure caption with gray shading indicates a change to an existing figure. New sections, tables, and figures are indicated by a bold, italic N in a gray box to the left of the new material. An N next to an Article title indicates that the entire Article is new. Where one or more complete paragraphs have been deleted, the deletion is indicated by a bullet (*) between the paragraphs that remain.

<< First

< Prev

Table of Contents

Next >

Last >>



CHAPTER I CALIFORNIA MATRIX ADOPTION TABLES

ARTICLE 100 — DEFINITIONS

Adopting Agency	BSC	BSC-CG	SFM	HCD		DSA		OSHPD		DPH		
				1	2	1-AC	AC	SS	SS/CC	1	1R	2
Adopt Entire Article								X	X			
Adopt entire Article as amended (amended sections listed below)	X			X	X					X	X	X
Adopt only those sections that are listed below						X						
Article/Section												
Coordination (Selective)										X	X	X
Ballasted Solar Photovoltaic System	X			X	X	X						
Building (Exception)					X	X	X					

ARTICLE 110 — REQUIREMENTS FOR ELECTRICAL INSTALLATIONS

Adopting Agency	BSC	BSC-CG	SFM	HCD		DSA		OSHPD		DPH		
				1	2	AC	SS	SS/CC	1	1R	2	5
Adopt Entire Article								X	X			
Adopt entire Article as amended (amended sections listed below)	X			X	X	X				X	X	X
Adopt only those sections that are listed below												
Article/Section												
110.2										X	X	X
110.19(C)										X	X	X
110.13 Exception	X			X	X	X						

<< First

< Prev

Table of Contents

Next >

Last >>



CHAPTER 2 CALIFORNIA MATRIX ADOPTION TABLES

ARTICLE 200 — USE AND IDENTIFICATION OF GROUNDED CONDUCTORS

Adopting Agency	BSC	BSC-CG	SFM	HCD		DSA			CSHPD					DPH
				1	2	AC	SS	SS/CC	1	1R	2	3	4	
Adopt Entire Article	X			X	X		X	X	X	X	X	X	X	
Adopt entire Article as amended (amended sections listed below)														
Adopt only those sections that are listed below														
Article/Section														

ARTICLE 210 — BRANCH CIRCUITS

Adopting Agency	BSC	BSC-CG	SFM	HCD		DSA			CSHPD					DPH
				1	2	AC	SS	SS/CC	1	1R	2	3	4	
Adopt Entire Article	X			X	X		X	X	X	X	X	X	X	
Adopt entire Article as amended (amended sections listed below)				X										
Adopt only those sections that are listed below														X
Article/Section														
210.12(A)				X										X
210.50(D), (E)														

ARTICLE 215 — FEEDERS

Adopting Agency	BSC	BSC-CG	SFM	HCD		DSA			CSHPD					DPH
				1	2	AC	SS	SS/CC	1	1R	2	3	4	
Adopt Entire Article	X			X	X		X	X	X	X	X	X	X	
Adopt entire Article as amended (amended sections listed below)														
Adopt only those sections that are listed below														
Article/Section														

ARTICLE 220 — BRANCH-CIRCUIT, FEEDER, AND SERVICE CALCULATIONS

Adopting Agency	BSC	BSC-CG	SFM	HCD		DSA			CSHPD					DPH
				1	2	AC	SS	SS/CC	1	1R	2	3	4	
Adopt Entire Article	X			X	X		X	X	X	X	X	X	X	
Adopt entire Article as amended (amended sections listed below)														
Adopt only those sections that are listed below														

<< First < Prev Table of Contents Next > Last >>



CHAPTER 3 CALIFORNIA MATRIX ADOPTION TABLES

ARTICLE 300 — GENERAL REQUIREMENTS FOR WIRING METHODS AND MATERIALS

Adopting Agency	BSC	BSC-CG	HCD			CSA			CSHPD					DPH
			SFM	1	2	AC	SS	SS/CC	1	1R	2	3	4	
Adopt Entire Article	X			X	X	X	X	X	X	X	X	X	X	X
Adopt entire Article as amended (amended sections listed below)														
Adopt only those sections that are listed below														
Article/Section														

ARTICLE 310 — CONDUCTORS FOR GENERAL WIRING

Adopting Agency	BSC	BSC-CG	HCD			CSA			CSHPD					DPH
			SFM	1	2	AC	SS	SS/CC	1	1R	2	3	4	
Adopt Entire Article	X			X	X	X	X	X	X	X	X	X	X	X
Adopt entire Article as amended (amended sections listed below)														
Adopt only those sections that are listed below														
Article/Section														

ARTICLE 312 — CABINETS, CUTOUT BOXES, AND METER SOCKET ENCLOSURES

Adopting Agency	BSC	BSC-CG	HCD			CSA			CSHPD					DPH
			SFM	1	2	AC	SS	SS/CC	1	1R	2	3	4	
Adopt Entire Article	X			X	X	X	X	X	X	X	X	X	X	X
Adopt entire Article as amended (amended sections listed below)														
Adopt only those sections that are listed below														
Article/Section														

ARTICLE 314 — OUTLET, DEVICE, PULL, AND JUNCTION BOXES; CONDUIT BODIES;
FITTINGS; AND HANDBOLE ENCLOSURES

Adopting Agency	BSC	BSC-CG	HCD			CSA			CSHPD					DPH
			SFM	1	2	AC	SS	SS/CC	1	1R	2	3	4	
Adopt Entire Article	X			X	X	X	X	X	X	X	X	X	X	X
Adopt entire Article as amended (amended sections listed below)														
Adopt only those sections that are listed below														

<< First < Prev Table of Contents Next > Last >>



CHAPTER 4 CALIFORNIA MATRIX ADOPTION TABLES

ARTICLE 400 — FLEXIBLE CORDS AND CABLES

Adopting Agency	BSC	BSC-CG	SFM	HCD		DSA			OSHPD			DPH		
				1	2	AC	SS	SS/CC	1	1R	2	3	4	5
Adopt Entire Article	X			X	X	X	X	X	X	X	X	X	X	X
Adopt entire Article as amended (amended sections listed below)														
Adopt only those sections that are listed below														
Article/Section														

ARTICLE 402 — FIXTURE WIRES

Adopting Agency	BSC	BSC-CG	SFM	HCD		DSA			OSHPD			DPH		
				1	2	AC	SS	SS/CC	1	1R	2	3	4	5
Adopt Entire Article	X			X	X	X	X	X	X	X	X	X	X	X
Adopt entire Article as amended (amended sections listed below)														
Adopt only those sections that are listed below														
Article/Section														

ARTICLE 404 — SWITCHES

Adopting Agency	BSC	BSC-CG	SFM	HCD		DSA			OSHPD			DPH		
				1	2	AC	SS	SS/CC	1	1R	2	3	4	5
Adopt Entire Article	X			X	X	X	X	X			X			
Adopt entire Article as amended (amended sections listed below)											X	X	X	X
Adopt only those sections that are listed below							X							
Article/Section							X							
404.FPN											X	X	X	X
404.4(C)														

ARTICLE 406 — RECEPTACLES, CORD CONNECTORS, AND ATTACHMENT PLUGS (CAPS)

Adopting Agency	BSC	BSC-CG	SFM	HCD		DSA			OSHPD			DPH		
				1	2	AC	SS	SS/CC	1	1R	2	3	4	5
Adopt Entire Article	X			X	X	X	X	X			X			
Adopt entire Article as amended (amended sections listed below)											X	X	X	X
Adopt only those sections that are listed below							X							

<< First < Prev Table of Contents Next > Last >>



CHAPTER 5 CALIFORNIA MATRIX ADOPTION TABLES

ARTICLE 500 — HAZARDOUS (CLASSIFIED) LOCATIONS, CLASSES I, II, AND III, DIVISIONS 1 AND 2

Adopting Agency	BSC	BSC-CG	HCD		DSA		CSHPD		DPH		
			SFM	1 2	AC	SS	SS/CC	1	1R	2	3
Accept Entire Article	X					X	X	X	X	X	X
Accept entire Article as amended (amended sections listed below)											
Accept only those sections that are listed below											
Article/Section											

ARTICLE 501 — CLASS I LOCATIONS

Adopting Agency	BSC	BSC-CG	HCD		DSA		CSHPD		DPH		
			SFM	1 2	AC	SS	SS/CC	1	1R	2	3
Accept Entire Article	X					X	X	X	X	X	X
Accept entire Article as amended (amended sections listed below)											
Accept only those sections that are listed below											
Article/Section											

ARTICLE 502 — CLASS II LOCATIONS

Adopting Agency	BSC	BSC-CG	HCD		DSA		CSHPD		DPH		
			SFM	1 2	AC	SS	SS/CC	1	1R	2	3
Accept Entire Article	X					X	X	X	X	X	X
Accept entire Article as amended (amended sections listed below)											
Accept only those sections that are listed below											
Article/Section											

ARTICLE 503 — CLASS III LOCATIONS

Adopting Agency	BSC	BSC-CG	HCD		DSA		CSHPD		DPH		
			SFM	1 2	AC	SS	SS/CC	1	1R	2	3
Accept Entire Article	X					X	X	X	X	X	X
Accept entire Article as amended (amended sections listed below)											
Accept only those sections that are listed below											
Article/Section											

<< First < Prev Table of Contents Next > Last >>



NFPA CA NEC_FM

NFPA CA NEC_ARTICLE 89

NFPA CA NEC_ARTICLE 90

NFPA CA NEC_CH01

NFPA CA NEC_CH02

NFPA CA NEC_CH03

NFPA CA NEC_CH04

NFPA CA NEC_CH05

NFPA CA NEC_CH06

NFPA CA NEC_CH07

NFPA CA NEC_CH08

NFPA CA NEC_CH09

NFPA CA NEC_Annexes A_C

NFPA CA NEC_Annexes D_J

NFPA CA NEC_Index

- NFPA CA NEC_FM
- NFPA CA NEC_ARTICLE_S9
- NFPA CA NEC_ARTICLE_S0
- NFPA CA NEC_CH01
- NFPA CA NEC_CH02
- NFPA CA NEC_CH03
- NFPA CA NEC_CH04
- NFPA CA NEC_CH05
- NFPA CA NEC_CH06
- NFPA CA NEC_CH07
- NFPA CA NEC_CH08
- NFPA CA NEC_CH09
- NFPA CA NEC_Annexes_A_C
- NFPA CA NEC_Annexes_D_J
- NFPA CA NEC_Index

CHAPTER 6 CALIFORNIA MATRIX ADOPTION TABLES

ARTICLE 600 — ELECTRIC SIGNS AND OUTLINE LIGHTING

Adopting Agency	BSC	BSC-CG	SFM	HCD		DSA			CSHPD					DPH
				1	2	AC	SS	SS/CC	1	1R	2	3	4	5
Adopt Entire Article	X		X	X	X	X	X	X	X	X	X	X	X	X
Adopt entire Article as amended (amended sections listed below)														
Adopt only those sections that are listed below														
Article/Section														

ARTICLE 604 — MANUFACTURED WIRING SYSTEMS

Adopting Agency	BSC	BSC-CG	SFM	HCD		DSA			CSHPD					DPH
				1	2	AC	SS	SS/CC	1	1R	2	3	4	5
Adopt Entire Article	X		X			X	X	X	X	X	X	X	X	X
Adopt entire Article as amended (amended sections listed below)														
Adopt only those sections that are listed below														
Article/Section														

ARTICLE 605 — OFFICE FURNISHINGS

Adopting Agency	BSC	BSC-CG	SFM	HCD		DSA			CSHPD					DPH
				1	2	AC	SS	SS/CC	1	1R	2	3	4	5
Adopt Entire Article	X		X			X	X	X	X	X	X	X	X	X
Adopt entire Article as amended (amended sections listed below)														
Adopt only those sections that are listed below														
Article/Section														

ARTICLE 610 — CRANES AND HOISTS

Adopting Agency	BSC	BSC-CG	SFM	HCD		DSA			CSHPD					DPH
				1	2	AC	SS	SS/CC	1	1R	2	3	4	5
Adopt Entire Article	X		X			X	X	X	X	X	X	X	X	X
Adopt entire Article as amended (amended sections listed below)														
Adopt only those sections that are listed below														
Article/Section														

[<< First](#) [< Prev](#) [Table of Contents](#) [Next >](#) [Last >>](#)



CHAPTER 7 CALIFORNIA MATRIX ADOPTION TABLES

ARTICLE 700 — EMERGENCY SYSTEMS

Adopting Agency	BSC	BSC-CG	SFM	HCD		DSA		OSHPD		DPH	
				1	2	AC	SS	SS/CC	1	1R	2
Adopt Entire Article	X			X	X		X	X			
Adopt entire Article as amended (amended sections listed below)			X						X	X	X
Adopt only those sections that are listed below											
Article/Section											
700.3(A)									X	X	X
700.3(B)									X	X	X
700.3(C)									X	X	X
700.12(B)(2) W/Exc. 1, 2, & 3			X						X	X	X

ARTICLE 701 — LEGALLY REQUIRED STANDBY SYSTEMS

Adopting Agency	BSC	BSC-CG	SFM	HCD		DSA		OSHPD		DPH	
				1	2	AC	SS	SS/CC	1	1R	2
Adopt Entire Article	X			X	*		X	X	X	X	X
Adopt entire Article as amended (amended sections listed below)											
Adopt only those sections that are listed below											
Article/Section											

The * designation indicates that the State Fire Marshal's adoption of this chapter or individual sections is applicable to structures subject to HCD 1 and/or 2.

ARTICLE 702 — OPTIONAL STANDBY SYSTEMS

Adopting Agency	BSC	BSC-CG	SFM	HCD		DSA		OSHPD		DPH	
				1	2	AC	SS	SS/CC	1	1R	2
Adopt Entire Article	X			X	X		X	X	X	X	X
Adopt entire Article as amended (amended sections listed below)											
Adopt only those sections that are listed below											
Article/Section											



CHAPTER 8 CALIFORNIA MATRIX ADOPTION TABLES

ARTICLE 800 — COMMUNICATION CIRCUITS

Adopting Agency	BSC	BSC-CG	SFM	HCD		DSA			OSHPD					DPH
				1	2	AC	SS	SS/CC	1	1R	2	3	4	
Adopt Entire Article	X			X	X	X	X	X	X	X	X	X	X	
Adopt entire Article as amended (amended sections listed below)														
Adopt only those sections that are listed below														
Article/Section														

ARTICLE 810 — RADIO AND TELEVISION EQUIPMENT

Adopting Agency	BSC	BSC-CG	SFM	HCD		DSA			OSHPD					DPH
				1	2	AC	SS	SS/CC	1	1R	2	3	4	
Adopt Entire Article	X			X	X	X	X	X	X	X	X	X	X	
Adopt entire Article as amended (amended sections listed below)														
Adopt only those sections that are listed below														
Article/Section														

ARTICLE 820 — COMMUNITY ANTENNA TELEVISION AND RADIO DISTRIBUTION SYSTEMS

Adopting Agency	BSC	BSC-CG	SFM	HCD		DSA			OSHPD					DPH
				1	2	AC	SS	SS/CC	1	1R	2	3	4	
Adopt Entire Article	X			X	X	X	X	X	X	X	X	X	X	
Adopt entire Article as amended (amended sections listed below)														
Adopt only those sections that are listed below														
Article/Section														

ARTICLE 830 — NETWORK-POWERED BROADBAND COMMUNICATIONS SYSTEMS

Adopting Agency	BSC	BSC-CG	SFM	HCD		DSA			OSHPD					DPH
				1	2	AC	SS	SS/CC	1	1R	2	3	4	
Adopt Entire Article	X			X	X	X	X	X	X	X	X	X	X	
Adopt entire Article as amended (amended sections listed below)														
Adopt only those sections that are listed below														

<< First < Prev Table of Contents Next > Last >>



CHAPTER 9 CALIFORNIA MATRIX ADOPTION TABLES

CHAPTER 9 — TABLES

Adopting Agency	BSC	BSC-CG	HCD		DSA		OSHPD					DPH	
			SFM	1	2	AC	SS	SS/CC	1	1R	2	3	
Adopt Entire Article	X		X	X	X	X	X	X	X	X	X	X	X
Adopt entire Article as amended (amended sections listed below)													
Adopt only those sections that are listed below													
Article/Section													

[**<< First**](#) [**< Prev**](#) [**Table of Contents**](#) [**Next >**](#) [**Last >>**](#)