

# **EXHIBIT 85**

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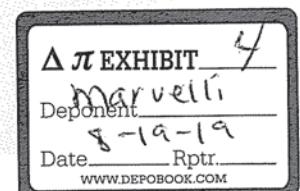
# 2019 CALIFORNIA ELECTRICAL CODE

CALIFORNIA CODE OF REGULATIONS  
TITLE 24, PART 3

Based on the 2017 National Electrical Code®

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## 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](http://www.dgs.ca.gov/bse)

Email: [cbsc@dgs.ca.gov](mailto:cbsc@dgs.ca.gov)

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### 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.

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**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.

**A** 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.

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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
Adopt Entire Article						X	X				
Adopt entire Article as amended (amended sections listed below)	X		X	X	X			X	X	X	X
Adopt only those sections that are listed below						X					
Article/Section											
Coordination (Selective)								X	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
Adopt Entire Article						X	X				
Adopt entire Article as amended (amended sections listed below)	X		X	X	X			X	X	X	X
Adopt only those sections that are listed below											
Article/Section											
110.2								X	X	X	X
110.19(C)								X	X	X	X
110.13 Exception	X		X	X	X						

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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)													X	
Adopt only those sections that are listed below														

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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	
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 310 — CONDUCTORS FOR GENERAL WIRING**

Adopting Agency	BSC	BSC-CG	HCD			CSA			CSHPD			DPH
			SFM	1	2	AC	SS	SS/CC	1	1R	2	
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 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	
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 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	
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												

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CHAPTER 4 CALIFORNIA MATRIX ADOPTION TABLES																
<b>ARTICLE 400 — FLEXIBLE CORDS AND CABLES</b>																
<b>Adopting Agency</b>	BSC CG	BSC- CG SFM	HCD		DSA			OSHPD			DPH					
			HCD	1	2	AC	SS	SS/CC	1	1R	2	3	4		5	
			X	X	X	X	X	X	X	X	X	X	X			
			Accept Entire Article													
			Accept entire Article as amended (amended sections listed below)													
Accept only those sections that are listed below																
Article/Section																
<b>ARTICLE 402 — FIXTURE WIRES</b>																
<b>Adopting Agency</b>	BSC CG	BSC- CG SFM	HCD		DSA			OSHPD			DPH					
			HCD	1	2	AC	SS	SS/CC	1	1R	2	3	4		5	
			X	X	X	X	X	X	X	X	X	X				
			Accept Entire Article													
			Accept entire Article as amended (amended sections listed below)													
Accept only those sections that are listed below																
Article/Section																
<b>ARTICLE 404 — SWITCHES</b>																
<b>Adopting Agency</b>	BSC CG	BSC- CG SFM	HCD		DSA			OSHPD			DPH					
			HCD	1	2	AC	SS	SS/CC	1	1R	2	3	4		5	
			X	X	X	X	X	X	X	X	X					
			Accept Entire Article													
			Accept entire Article as amended (amended sections listed below)													
Accept only those sections that are listed below																
Article/Section																
404.FPN																
404.4(C)																
<b>ARTICLE 406 — RECEPTACLES, CORD CONNECTORS, AND ATTACHMENT PLUGS (CAPS)</b>																
<b>Adopting Agency</b>	BSC CG	BSC- CG SFM	HCD		DSA			OSHPD			DPH					
			HCD	1	2	AC	SS	SS/CC	1	1R	2	3	4		5	
			X	X	X	X	X	X	X	X						
			Accept Entire Article													
			Accept entire Article as amended (amended sections listed below)													
Accept only those sections that are listed below																
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**CHAPTER 5 CALIFORNIA MATRIX ADOPTION TABLES**

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

Adopting Agency	BSC CG	BSC- CG	HCD		DSA		CSHPD		DPH				
			BSC	SFM	1	2	AC	SS	SS/CC	1	1R	2	3
Accept Entire Article	X	X			X	X	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 CG	BSC- CG	HCD		DSA		CSHPD		DPH				
			BSC	SFM	1	2	AC	SS	SS/CC	1	1R	2	3
Accept Entire Article	X	X			X	X	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 CG	BSC- CG	HCD		DSA		CSHPD		DPH				
			BSC	SFM	1	2	AC	SS	SS/CC	1	1R	2	3
Accept Entire Article	X	X			X	X	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 CG	BSC- CG	HCD		DSA		CSHPD		DPH				
			BSC	SFM	1	2	AC	SS	SS/CC	1	1R	2	3
Accept Entire Article	X	X			X	X	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													

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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	
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 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	
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 605 — OFFICE FURNISHINGS**

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 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	
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														

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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	IR	2
Adopt Entire Article	X			X	X	X	X				
Adopt entire Article as amended (amended sections listed below)			X					X	X	X	X
Adopt only those sections that are listed below											
Article/Section											
700.3(A)								X	X	X	X
700.3(B)								X	X		
700.3(C)								X	X	X	X
700.12(B)(2) W/Exc. 1, 2, & 3			X					X	X	X	X

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

**ARTICLE 701 — LEGALLY REQUIRED STANDBY SYSTEMS**

Adopting Agency	BSC	BSC-CG	SFM	HCD		DSA		OSHPD		DPH	
				1	2	AC	SS	SS/CC	1	IR	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											

The + designation indicates that the State Fire Marshal's adoption of this chapter or individual section 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	IR	2
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											

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**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		
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		
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		
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		
Adopt entire Article as amended (amended sections listed below)														
Adopt only those sections that are listed below														

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CHAPTER 9 CALIFORNIA MATRIX ADOPTION TABLES

CHAPTER 9 — TABLES

Adopting Agency	BSC	BSC-CG	SFM	HCD		DSA		OSHPD					DPH
				1	2	AC	SS	SS/CC	1	1R	2	3	
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													

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