

**EXPRESS TERMS FOR
PROPOSED BUILDING STANDARDS
OF THE
DIVISION OF THE STATE ARCHITECT - STRUCTURAL SAFETY (DSA-SS)
REGARDING
THE ADOPTION OF THE 2008 NATIONAL ELECTRICAL CODE (NEC)
FOR USE AS THE 2010 CALIFORNIA ELECTRICAL CODE
CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 3**

The California Building Standards Code (California Code of Regulations, Title 24, Part 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12) is published in its entirety every three years and is applicable to all buildings for which an application for a building permit is made during the Code's effective period. Each triennial edition of the California Building Standards Code becomes effective 180 days after its publication.

These proposed regulations will make effective the 2008 edition of the National Electrical Code (NEC) as the 2010 edition California Electrical Code, for application by DSA-SS to public elementary and secondary schools, community colleges, and state-owned or state-leased essential services buildings.

These proposed regulations will also make effective the 2008 edition of the National Electrical Code (NEC) as the 2010 edition California Electrical Code, for application by DSA-SS/CC (Division of the State Architect – Structural Safety/Community Colleges) to community colleges, which a community college district may elect to use in lieu of standards promulgated by DSA-SS (refer to Education Code Section 81053).

Further, these proposed regulations will repeal the 2005 edition NEC articles adopted as the 2007 edition California Electrical Code.

LEGEND FOR EXPRESS TERMS

1. California amendment (CA) language being continued without modification is shown in *italics*.
2. New California amendment (CA) language is shown *underlined and in italics*.
3. Repealed California amendment (CA) language is shown in ~~*strikeout and in italics*~~.
4. Model code language that is modified: Model code text that is not adopted is shown in ~~strikeout and in normal font~~, and new California amendment language is shown *underlined and in italics*.

**CALIFORNIA ELECTRICAL CODE - ARTICLE 89
Administrative**

Continue Article 89 of the 2007 triennial edition of the California Electrical Code (CEC) for publication in the 2010 triennial edition of the CEC, with editorial amendments as shown below:

2007 CEC Article 89	2010 CEC Article 89	DSA-SS	<u>DSA-SS/CC</u>	Comments
89.101.1 Title	89.101.1	X	<u>X</u>	
89.101.2 Purpose	89.101.2	X	<u>X</u>	
89.101.3 Scope	89.101.3	X	<u>X</u>	DSA-SS adopts Item 11 of Article 89.101.3.
89.101.4 Annexes	89.101.4	X	<u>X</u>	

89.101.5 Referenced Codes	89.101.5	X	<u>X</u>	
89.101.6 Non-Building Standards, Orders and Regulations	89.101.6	X	<u>X</u>	
89.101.7 Order of Precedence and Use	89.101.7	X	<u>X</u>	
89.101.8 City, County, or City and County Amendments, Additions or Deletions	89.101.8			
89.101.9 Effective Date of this Code	89.101.9	X	<u>X</u>	
89.101.10 Availability of Codes	89.101.10	X	<u>X</u>	
89.101.11 Format	89.101.11	X	<u>X</u>	
89.101.12 Validity	89.101.12			
89.109.2 DSA-SS	89.109.2.1 (DSA-SS)	X	-	
-	89.109.2.2 (DSA-SS/CC)	-	<u>X</u>	New amendment

**CALIFORNIA ARTICLE 89
GENERAL CODE PROVISIONS**

(Note: Adopt only those sections listed in the Matrix Adoption Tables)

**SECTION 89.101
GENERAL**

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 ~~eleven~~ twelve parts of the official compilation and publication of the adoptions, 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 ~~2005~~ 2008 National Electrical Code of the National Fire Protection Association with necessary California amendments.*

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 ~~preserve~~ 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 structures throughout the State of California.*

89.101.3.1 Non-State-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, 3, 4, 5, 6, 9 and 10 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 referenced in the Matrix Adoption Tables and as specified in ~~Sections~~ Sections 89.102 through 89.443114, 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. ...
2. ...
3. ...
4. ...
5. ...
6. ...
7. ...
8. ...
9. ...
- 10.
11. Public elementary and secondary schools, community college buildings, and state-owned or state-leased essential service buildings regulated by the Division of the State Architect. See Section 89.109.2 for additional scope provisions.
12. ...
13. ...
14. ...
15. ...
16. ...
17. ...

89.101.3.3 Exempted from this Code. This ~~C~~code does not cover:

(A) 1. Installations in ships, watercraft other than floating dwelling units, railway rolling stock, aircraft, automotive vehicles, commercial coaches, mobilehomes, and recreational vehicles.

(B) 2. Installations underground in mines, mine shafts and tunnels.

(C) 3. Installations of railways for generation, transformation, transmission, or distribution of power used exclusively for operation of rolling stock or installations used exclusively for signaling and communication purposes.

(D) 4. Installation of communication equipment under the exclusive control of communication utilities, located outdoors or in building spaces used exclusively for such installations.

(E) 5. Installations under the exclusive control of electrical utilities for the purpose of communication, or metering; or for the generation, control, transformation, transmission, and distribution of electrical energy located in buildings used exclusively by utilities for such purposes or located outdoors on property owned or leased by the utility or on public highways, streets, roads, etc., or outdoors by established rights on private property.

Exception to (D)4 and (E)5: In places of employment, the following shall apply: installations of conductors, equipment and associated enclosures subject to the jurisdiction of the California Public Utilities Commission, that are owned, operated and maintained by an electric, communications or electric railway utility, but not including conduit, vaults, and other like enclosures containing conductors and equipment of such a utility when located indoors or on premises not used exclusively for utility purposes, but do not apply to the utility's conductors and equipment therein.

(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 agency or adopted by a local enforcing agency in compliance with Health and Safety Code Section 18938 (b) for Building Standards Law, Health and Safety Code Section 17950 for State Housing Law and Health and Safety Code Section 13869.7 for Fire Protection Districts. See ~~§~~Section 89.101.8 of this code.

89.101.5 Referenced Codes. The codes, standards and publications adopted and set forth in this code, including other codes, standards and publications referred to therein are, by title and date of publication, hereby adopted as standard reference documents of this code. When this code does not specifically cover any subject related to building design and construction, recognized architectural or engineering practices shall be employed. The National Fire Codes and the Fire Protection Handbook of the National Fire ~~Prevention~~ Protection Association are permitted to be used as authoritative guides in determining recognized fire prevention engineering practices.

89.101.6 Non-Building Standards, Orders and Regulations. Requirements contained in the National Electrical Code, or in any other referenced standard, code or document, which are not building standards as defined in Health and Safety Code §Section 18909, ~~Health and Safety Code~~, shall not be construed as part of the provisions of this code. For nonbuilding standards, orders, and regulations, see other titles of the California Code of Regulations.

89.101.7 Order of Precedence and Use.

89.101.7.1 Differences. In the event of any differences between these building standards and the standard reference documents, the text of these building standards shall govern.

89.101.7.2 Specific Provisions. Where a specific provision varies from a general provision, the specific provisions shall apply.

89.101.7.3 Conflicts. When the requirements of this code conflict with the requirements of any other part of the California Building Standards Code, Title 24, the most restrictive requirements shall prevail.

...

89.101.9 Effective Date of this Code. Only those standards approved by the California Building Standards Commission that are effective at the time an application for building permit is submitted shall apply to the plans and specifications for, and to the construction performed under, that permit. For the effective dates of the provisions contained in this code, see the History Note page of this code.

89.101.10 Availability of Codes. At least one entire copy each of Titles 8, 19, 20, 24, and 25 with all revisions shall be maintained in the office of the building official responsible for the administration and enforcement of this code. See Health and Safety Code ~~§~~Section 18942 (d) (1) ~~&~~and (2).

89.101.11 Format. This part fundamentally adopts the National Electrical Code by reference on a chapter-by-chapter basis. Such adoption is reflected in the Matrix ~~a~~Adoption ~~€~~Table of each chapter of this part. When the

Matrix Adoption Tables make no reference to a specific chapter of the National Electrical Code, such chapter of the National Electrical Code is not adopted as a portion of this code.

89.101.12 Validity. If any chapter, article, section, subsection, sentence, clause or phrase of this code is for any reason held to be unconstitutional, contrary to statute, exceeding the authority of the state as stipulated by statutes, or otherwise inoperative, such decision shall not affect the validity of the remaining portion of this code

SECTION 89.109
DIVISION OF THE STATE ARCHITECT

89.109.1 (Reserved for DSA-AC)

89.109.2 Division of the State Architect - Structural Safety

89.109.2.1. DSA-SS (Division of the State Architect – Structural Safety)

Application - Public elementary and secondary schools, community college buildings, and state-owned or state-leased essential services buildings.

Enforcing Agency - Division of the State Architect – Structural Safety (DSA-SS).

The Division of the State Architect has been delegated the responsibility and authority by the Department of General Services to review and approve the design and oversee the construction of public elementary and secondary schools, community colleges, and state-owned or state-leased essential services buildings.

Authority Cited - Education Code Section 17310 and 81142, and Health & Safety Code Section 16022.

Reference - Education Code Sections 17280 through 17317 and 81130 through 81147, and Health & Safety Code Sections 16000 through 16023.

89.109.2.2. DSA-SS/CC (Division of the State Architect – Structural Safety/Community Colleges)

Application - Community Colleges.

The Division of the State Architect has been delegated the authority by the Department of General Services to promulgate alternate building standards for application to community colleges, which a community college may elect to use in lieu of standards promulgated by DSA-SS in accordance with Section 89.109.2.1. Refer to Title 24, Part 2, Section 1.9.2.2.

Enforcing Agency - Division of the State Architect – Structural Safety/Community Colleges (DSA-SS/CC)

The Division of the State Architect has been delegated the authority by the Department of General Services to review and approve the design and oversee construction of community colleges electing to use the alternative building standards as provided in this section.

Authority Cited - Education Code Section 81053.

Reference - Education Code Sections 81052, 81053, and 81130 through 81147.

89.109.3 (Reserved for the State Historical Building Safety Board)

CALIFORNIA ELECTRICAL CODE - ARTICLE 90

Introduction

Repeal Article 90 of the 2005 edition of the National Electrical Code and adopt Article 90 of the 2008 NEC without amendment for publication in the 2010 triennial edition of the California Electrical Code.

CALIFORNIA ELECTRICAL CODE - CHAPTER 1

General

Repeal Chapter 1 of the 2005 NEC and adopt Chapter 1 of the 2008 NEC without amendment for publication in the 2010 triennial edition of the California Electrical Code.

2005 NEC Article	2008 NEC Article	DSA-SS	<u>DSA-SS/CC</u>	Comments
100	100	X	<u>X</u>	
110	110	X	<u>X</u>	

CALIFORNIA ELECTRICAL CODE - CHAPTER 2

Wiring and Protection

Repeal Chapter 2 of the 2005 NEC and adopt Chapter 2 of the 2008 NEC without amendment for publication in the 2010 triennial edition of the California Electrical Code.

2005 NEC Article	2008 NEC Article	DSA-SS	<u>DSA-SS/CC</u>	Comments
200	200	X	<u>X</u>	
210	210	X	<u>X</u>	
215	215	X	<u>X</u>	
220	220	X	<u>X</u>	
225	225	X	<u>X</u>	
230	230	X	<u>X</u>	
240	240	X	<u>X</u>	
250	250	X	<u>X</u>	
280	280	X	<u>X</u>	
285	285	X	<u>X</u>	

**CALIFORNIA ELECTRICAL CODE - CHAPTER 3
Wiring Methods and Materials**

Repeal Chapter 3 of the 2005 NEC and adopt Chapter 3 of the 2008 NEC without amendment for publication in the 2010 triennial edition of the California Electrical Code.

2005 NEC Article	2008 NEC Article	DSA-SS	<u>DSA-SS/CC</u>	Comments
300	300	X	<u>X</u>	
310	310	X	<u>X</u>	
312	312	X	<u>X</u>	
314	314	X	<u>X</u>	
320	320	X	<u>X</u>	
322	322	X	<u>X</u>	
324	324	X	<u>X</u>	
326	326	X	<u>X</u>	
328	328	X	<u>X</u>	
330	330	X	<u>X</u>	
332	332	X	<u>X</u>	
334	334	X	<u>X</u>	
336	336	X	<u>X</u>	
338	338	X	<u>X</u>	
340	340	X	<u>X</u>	
342	342	X	<u>X</u>	
344	344	X	<u>X</u>	
348	348	X	<u>X</u>	
350	350	X	<u>X</u>	
352	352	X	<u>X</u>	
353	353	X	<u>X</u>	
-	355	X	<u>X</u>	New Article in 2008 NEC – Reinforced Thermosetting Resin Conduit: Type RTRC
354	354	X	<u>X</u>	
356	356	X	<u>X</u>	
358	358	X	<u>X</u>	
360	360	X	<u>X</u>	

362	362	X	<u>X</u>	
366	366	X	<u>X</u>	
368	368	X	<u>X</u>	
370	370	X	<u>X</u>	
372	372	X	<u>X</u>	
374	374	X	<u>X</u>	
376	376	X	<u>X</u>	
378	378	X	<u>X</u>	
380	380	X	<u>X</u>	
382	382	X	<u>X</u>	
384	384	X	<u>X</u>	
386	386	X	<u>X</u>	
388	388	X	<u>X</u>	
390	390	X	<u>X</u>	
392	392	X	<u>X</u>	
394	394	X	<u>X</u>	
396	396	X	<u>X</u>	
398	398	X	<u>X</u>	

**CALIFORNIA ELECTRICAL CODE - CHAPTER 4
Equipment for General Use**

Repeal Chapter 4 of the 2005 NEC and adopt Chapter 4 of the 2008 NEC without amendment for publication in the 2010 triennial edition of the California Electrical Code.

2005 NEC Article	2008 NEC Article	DSA-SS	<u>DSA-SS/CC</u>	Comments
400	400	X	<u>X</u>	
402	402	X	<u>X</u>	
404	404	X	<u>X</u>	
406	406	X	<u>X</u>	
408	408	X	<u>X</u>	
409	409	X	<u>X</u>	
410	410	X	<u>X</u>	

411	411	X	<u>X</u>	
422	422	X	<u>X</u>	
424	424	X	<u>X</u>	
426	426	X	<u>X</u>	
427	427	X	<u>X</u>	
430	430	X	<u>X</u>	
440	440	X	<u>X</u>	
445	445	X	<u>X</u>	
450	450	X	<u>X</u>	
455	455	X	<u>X</u>	
460	460	X	<u>X</u>	
470	470	X	<u>X</u>	
480	480	X	<u>X</u>	
490	490	X	<u>X</u>	

CALIFORNIA ELECTRICAL CODE - CHAPTER 5
Special Occupancies

Repeal Chapter 5 of the 2005 NEC and adopt Chapter 5 of the 2008 NEC without amendment for publication in the 2010 triennial edition of the California Electrical Code.

2005 NEC Article	2008 NEC Article	DSA-SS	<u>DSA-SS/CC</u>	Comments
500	500	X	<u>X</u>	
501	501	X	<u>X</u>	
502	502	X	<u>X</u>	
503	503	X	<u>X</u>	
504	504	X	<u>X</u>	
505	505	X	<u>X</u>	
506	506	X	<u>X</u>	
510	510	X	<u>X</u>	
511	511	X	<u>X</u>	
513	513	X	<u>X</u>	
514	514	X	<u>X</u>	

515	515	X	<u>X</u>	
516	516	X	<u>X</u>	
517	517	X	<u>X</u>	
518	518	X	<u>X</u>	
520	520	X	<u>X</u>	
-	522	X	<u>X</u>	New Article in 2008 NEC – Control Systems for Permanent Amusement Attractions
525	525	X	<u>X</u>	
305	527	X	<u>X</u>	
530	530	X	<u>X</u>	
540	540	X	<u>X</u>	
545	545	X	<u>X</u>	
547	547	X	<u>X</u>	
550	550	X	<u>X</u>	
551	551	X	<u>X</u>	
552	552	X	<u>X</u>	
553	553	X	<u>X</u>	
555	555	X	<u>X</u>	
527	590	X	<u>X</u>	

CALIFORNIA ELECTRICAL CODE - CHAPTER 6
Special Equipment

Repeal Chapter 6 of the 2005 NEC and adopt Chapter 6 of the 2008 NEC without amendment for publication in the 2010 triennial edition of the California Electrical Code.

2005 NEC Article	2008 NEC Article	DSA-SS	<u>DSA-SS/CC</u>	Comments
600	600	X	<u>X</u>	
604	604	X	<u>X</u>	
605	605	X	<u>X</u>	
610	610	X	<u>X</u>	
620	620	X	<u>X</u>	
625	625	X	<u>X</u>	

-	626	X	<u>X</u>	New Article in 2008 NEC – Electrified Truck Parking Spaces
630	630	X	<u>X</u>	
640	640	X	<u>X</u>	
645	645	X	<u>X</u>	
647	647	X	<u>X</u>	
650	650	X	<u>X</u>	
660	660	X	<u>X</u>	
665	665	X	<u>X</u>	
668	668	X	<u>X</u>	
669	669	X	<u>X</u>	
670	670	X	<u>X</u>	
675	675	X	<u>X</u>	
680	680	X	<u>X</u>	
682	682	X	<u>X</u>	
685	685	X	<u>X</u>	
690	690	X	<u>X</u>	
692	692	X	<u>X</u>	
695	695	X	<u>X</u>	

**CALIFORNIA ELECTRICAL CODE - CHAPTER 7
Special Conditions**

Repeal Chapter 7 of the 2005 NEC and adopt Chapter 7 of the 2008 NEC without amendment for publication in the 2010 triennial edition of the California Electrical Code.

2005 NEC Article	2008 NEC Article	DSA-SS	<u>DSA-SS/CC</u>	Comments
700	700	X	<u>X</u>	
701	701	X	<u>X</u>	
702	702	X	<u>X</u>	
705	705	X	<u>X</u>	
-	708	X	<u>X</u>	New article in 2008 NEC – Critical Operations Power Systems (COPS)
720	720	X	<u>X</u>	
725	725	X	<u>X</u>	

727	727	X	<u>X</u>	
760	760	X	<u>X</u>	
770	770	X	<u>X</u>	

**CALIFORNIA ELECTRICAL CODE - CHAPTER 8
Communications Systems**

Repeal Chapter 8 of the 2005 NEC and adopt Chapter 8 of the 2008 NEC without amendment for publication in the 2010 triennial edition of the California Electrical Code.

2005 NEC Article	2008 NEC Article	DSA-SS	<u>DSA-SS/CC</u>	Comments
800	800	X	<u>X</u>	
810	810	X	<u>X</u>	
820	820	X	<u>X</u>	
830	830	X	<u>X</u>	

**CALIFORNIA ELECTRICAL CODE - CHAPTER 9
Tables**

Repeal Chapter 9 of the 2005 NEC and adopt Chapter 9 of the 2008 NEC for publication in the 2010 triennial edition of the California Electrical Code.

2005 NEC Table	2008 NEC Table	DSA-SS	<u>DSA-SS/CC</u>	Comments
1	1	X	<u>X</u>	
2	2	X	<u>X</u>	
4	4	X	<u>X</u>	
5	5	X	<u>X</u>	
5A	5A	X	<u>X</u>	
8	8	X	<u>X</u>	
9	9	X	<u>X</u>	
11(A)	11(A)	X	<u>X</u>	
11(B)	11(B)	X	<u>X</u>	
12(A)	12(A)	X	<u>X</u>	
12(B)	12(B)	X	<u>X</u>	

CALIFORNIA ELECTRICAL CODE - Annex

DSA-SS and DSA-SS/CC do not propose to adopt Annex A, B, C, D, E, F, G or H of the 2008 NEC for publication in the 2010 triennial edition of the California Electrical Code.

2005 NEC Appendix	2008 NEC Annex	DSA-SS	<u>DSA-SS/CC</u>	Comments
A	A			
B	B			
C	C			
D	D			
E	E			
F	F			
G	G			
-	H			

DSA-SS

Authority: Education Code § 17310 and 81142, and H&S Code §16022.

Reference: Education Code §§ 17280 through 17317, and 81130 through 81147, and H&S Code §§16000 through 16023.

DSA-SS/CC

Authority: Education Code § 81053.

Reference: Education Code §§ 81052, 81053, and 81130 through 81147.