45-DAY EXPRESS TERMS  
FOR PROPOSED BUILDING STANDARDS  
OF THE **OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT**  
REGARDING THE **2019 CALIFORNIA ELECTRICAL CODE**  
CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART **3**

# (OSHPD 04/19)

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, italic and ellipsis.

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 Repealed model code language appears ~~upright and in strikeout~~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 Repealed California amendments appear in *~~italic and strikeout~~*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

**INITIAL EXPRESS TERMS**

## ITEM 1

**CALIFORNIA ARTICLE 89 -** GENERAL CODE PROVISIONS

**SECTION 89.110 - OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT**

OSHPD proposes to clarify the application for OSHPD 1R to include “SPC or freestanding” nonconforming hospital building that have been removed from acute-care service

***89.110.1 OSHPD 1 and OSHPD 1R.*** *Specific scope of application of the agency responsible for enforcement, enforcement agency, specific authority to adopt and enforce such provisions of this code, unless otherwise stated.*

**OSHPD 1 and OSHPD 1R.**

***Application*** *– [OSHPD 1] General acute care hospitals buildings*.

*[OSHPD 1R] Non-conforming hospital SPC or freestanding buildings that have been removed from acute care service*.

**Notation:**

Authority: Health and Safety Code, Sections 1275, 18928, 129790, and 129850

Reference: Health and Safety Code, Section 129850

## ITEM 2

**CALIFORNIA ARTICLE 89 -** GENERAL CODE PROVISIONS

**SECTION 89.110 - OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT**

OSHPD proposes to amend Article 89.110.4 to change OSHPD 4 Enforcing Agency from Office of Health Planning and Development to Californian Department of Correction and Rehabilitation for state prison facilities. This item is a standard comment that was made in Parts 2, 3, 4, 5, and 10, and aligns code language to reflect the enforcing agency for Correctional Treatment Centers as the California Department of Corrections and Rehabilitation for state prison facilities.

***89.110.4 OSHPD 4.*** *Specific scope of application of the agency responsible for enforcement, enforcement agency, specific authority to adopt and enforce such provisions of this code, unless otherwise stated.*

*OSHPD 4*

***Application —*** *Correctional Treatment Centers*

***Enforcing Agency —*** *California Department of Corrections and Rehabilitation. ~~Office of Statewide Health Planning and Development (OSHPD). The Office shall also enforce the Division of the State Architect access compliance regulations and the regulations of the Office of the State Fire Marshal for the above stated facility types.~~*

**Notation:**

Authority: Health and Safety Code, Sections 1275, 18928, 129790, and 129850

Reference: Health and Safety Code, Section 129850

## ITEM 3

**Chapter 1 General**

**ARTICLE 110 - Requirements for Electrical Installations**

OSHPD proposes to repeal existing amendments in 110.2 and 110.13(C) because 110.2 is duplication of model code language found in 110.3(C) and 110.13(C) is redundant language and is not required.

**110.2 Approval.** The conductors and equipment required or permitted by this *Code* shall be acceptable only if approved.

*~~[OSHPD 1, 1R, 2, 3 4 & 5] Equipment shall be approvable if it is listed, labeled or certified for its use by a Nationally Recognized Testing Laboratory (NRTL) as recognized by the U.S. department of Labor, Occupational Safety and Health Administration.~~*

…

**110.13 Mounting and Cooling of Equipment.**

…

***~~(C) [OSHPD 1,~~******~~1R, 2, 3, 4 & 5] Hospitals. Anchorage and Bracing~~****~~. Electrical equipment and its supporting structure~~* ***~~installed in hospital buildings~~*** *~~shall be anchored and braced to withstand the lateral forces, and shall accommodate calculated displacements as required by Part 2, Title 24, C.C.R.~~*

**ASSOCIATED ARTICLES TO ITEM 3**

Represents articles that may be impacted by this proposed code change item – Refer to those items in parentheses for related changes.

**(ITEM 4)** Chapter 4 Equipment for General Use

*Articles 404.4(C) and 406.9(C)(1)*

**(ITEM 7)** Chapter 5 Special Occupancies

*Article 517.2, Definitions General Care (Category 2) Space and Critical Care (Category 1) Space*

**(ITEM 9)** Chapter 5 Special Occupancies

*Articles 517.10(B)(2), 517.12(A), 517,18(B) Exc.3, 517,18(B) Exc.4, 517,18(B) Exc.5, 517.19.(B)(1) Exc., 517.22, 517.22(B)(1), 517.24, and 517.26*

**(ITEM 10)** Chapter 5 Special Occupancies

*Article 517.29(A.1)*

**(ITEM 11)** Chapter 5 Special Occupancies

*Articles 517.30(B)(1.1), 517.30(C), 517.31(B)(1)(3), 517.31(B)(3), 517.31(C)(3)(3)g, 517.31(D.1), 517.31(E), 517.34(A)(5), 517.34(A)(8), 517.34(A)(10), 517.35(A)(9) – (10), 517.35(B)(1.1) - (1.2), 517.42(E), 517.44(A)(6) Exc.1, 517.44(A)(7) – (10), and 517.44(B)(1.1)*

**(ITEM 12)** Chapter 5 Special Occupancies

*Articles 517.123*

**(ITEM 13)** Chapter 5 Special Occupancies

Article 517.124

**(ITEM 14)** Chapter 7 Special Conditions

*Article 700.12(B)(2) Exc’s., Exc.1, Exc.2, and Exc.3*

**Notation:**

Authority: Health and Safety Code, Sections 1275, 18928, 129790, and 129850

Reference: Health and Safety Code, Section 129850

## ITEM 4

**Chapter 4 Equipment for General Use**

**ARTICLE 404 Switches**

**ARTICLE 406 Receptacles, Cord Connectors, and Attachment Plugs (Caps)**

OSHPD proposes to amend Articles 404.4(C) and 406.9(C)(1) to remove 1R from OSHPD banners because these requirements, which restrict the installation of switches and receptacles within 5 feet of tub or shower spaces located in hospitals, intermediate and skilled nursing facilities, correctional treatment centers, and acute psychiatric hospitals, are based on occupancy and do not apply to the 1R building type.

**404.4 Damp or Wet Locations.**

…

**(C) Switches in Tub or Shower Spaces.** Switches shall not be installed within tubs or shower spaces unless installed as part of a listed tub or shower assembly.

*[OSHPD 1, ~~1R,~~ 2, 4 & 5] Switches that are not part of a listed tub or shower assembly shall not be installed within shower rooms or stalls, or be accessible from within those areas. Switches shall not be installed within 5 feet (1.52m) of the perimeter of bathtubs or shower stalls.*

…

**406.9 Receptacles in Damp or Wet Locations.**

…

**(C) Bathtub and Shower Space.** Receptacles shall not be installed within or directly over a bathtub or shower stall.

*(1) [OSHPD 1, ~~1R,~~ 2, 4 & 5] Receptacles shall not be installed within shower rooms or stalls or be accessible from within these areas. Receptacles shall not be installed within 5 feet (1.52 m) of the perimeter of bathtubs or shower stalls.*

**ASSOCIATED ARTICLES TO ITEM 4**

Represents articles that may be impacted by this proposed code change item – Refer to those items in parentheses for related changes.

**(****ITEM 3)** Chapter 1 General

*Articles 110.2 and 110.13(C)*

**(ITEM 7)** Chapter 5 Special Occupancies

*Article 517.2, Definitions General Care (Category 2) Space and Critical Care (Category 1) Space*

**(ITEM 9)** Chapter 5 Special Occupancies

*Articles 517.10(B)(2), 517.12(A), 517,18(B) Exc.3, 517,18(B) Exc.4, 517,18(B) Exc.5, 517.19.(B)(1) Exc., 517.22, 517.22(B)(1), 517.24, and 517.26*

**(ITEM 10)** Chapter 5 Special Occupancies

*Article 517.29(A.1)*

**(ITEM 11)** Chapter 5 Special Occupancies

*Articles 517.30(B)(1.1), 517.30(C), 517.31(B)(1)(3), 517.31(B)(3), 517.31(C)(3)(3)g, 517.31(D.1), 517.31(E), 517.34(A)(5), 517.34(A)(8), 517.34(A)(10), 517.35(A)(9) – (10), 517.35(B)(1.1) - (1.2), 517.42(E), 517.44(A)(6) Exc.1, 517.44(A)(7) – (10), and 517.44(B)(1.1)*

**(ITEM 12)** Chapter 5 Special Occupancies

*Articles 517.123*

**(ITEM 13)** Chapter 5 Special Occupancies

Article 517.124

**(ITEM 14)** Chapter 7 Special Conditions

*Article 700.12(B)(2) Exc’s., Exc.1, Exc.2, and Exc.3*

**Notation:**

Authority: Health and Safety Code, Sections 1275, 18928, 129790, and 129850

Reference: Health and Safety Code, Section 129850

## ITEM 5

**Chapter 5 Special Occupancies**

**ARTICLE 517 Health Care Facilities**

OSHPD proposes to add Article 517.1(A) to provide a code reference for OSHPD 1R found in Section 309 of California Existing Building Code. This item is a standard comment that is being made in Parts 3, 4, and 5.

**517.1 Scope**. The provisions of this article shall apply to electrical construction and installation criteria in health care facilities that provide services to human beings.

The requirements in Parts II and III not only apply to single-function buildings but are also intended to be individually applied to their respective forms of occupancy within a multifunction building (e.g., a doctor’s examining room located within a limited care facility would be required to meet the provisions of 517.10).

Informational Note: For information concerning performance, maintenance, and testing criteria, refer to the appropriate health care facilities documents.

***(A) OSHPD 1R.*** *For OSHPD 1R, refer to Section 309 of California Existing Building Code for general requirements.*

**Notation:**

Authority: Health and Safety Code, Sections 1275, 18928, 129790, and 129850

Reference: Health and Safety Code, Section 129850

## ITEM 6

**Chapter 5 Special Occupancies**

**ARTICLE 517 Health Care Facilities**

OSHPD proposes to add Article 517.1(B) to require electrical equipment schedules on construction documents in order to aid with authority having jurisdiction reviews.

**517.1 Scope.**

…

***(B****)* ***Electrical Equipment Schedules [OSHPD 1, 2, 4, & 5].*** *Electrical equipment schedules in the construction documents shall clearly indicate which equipment will be powered by the essential electrical system or appropriate special seismic certifications.*

**Notation:**

Authority: Health and Safety Code, Sections 1275, 18928, 129790, and 129850

Reference: Health and Safety Code, Section 129850

## ITEM 7

**Chapter 5 Special Occupancies**

**ARTICLE 517 Health Care Facilities**

OSHPD proposes to amend General Care (Category 2) Space and Critical Care (Category 1) Space definitions in Article 517.2 by removing 1R from OSHPD banners because these patient care space definitions are occupancy based (i.e., hospitals, intermediate and skilled nursing facilities, clinics, correctional treatment centers, and acute psychiatric hospitals) and not applicable to 1R building type.

**517.2 Definitions.**

…

**Patient Care Space.**

…

**General Care (Category 2) Space.** Space in which failure of equipment or a system is likely to cause minor injury to patients, staff, or visitors. [**99:** 3.3.127.2] *[OSHPD 1, ~~1R,~~  2, 3, 4 & 5] Includes areas such as patient bedrooms, examining rooms, treatment rooms, clinics, and similar areas where the patient may come into contact with electromedical devices or ordinary appliances such as a nurse call system, electric beds, examining lamps, telephones, and entertainment devices.*

*…*

**Critical Care (Category 1) Space.** Space in which failure of equipment or a system is likely to cause major injury or death of patients, staff, or visitors. [**99:** 3.3.127.1]

*[OSHPD 1, ~~1R,~~ 2, 3, 4 & 5] Includes special care units, intensive care units, coronary care units, sub-acute units, angiography laboratories, cardiac catheterization laboratories, delivery rooms, operating rooms, portions of emergency departments, electroconvulsive therapy procedure rooms, postoperative recovery rooms and similar areas in which patients are intended to be subjected to invasive procedures and are connected to line-operated electromedical devices*

**ASSOCIATED ARTICLES TO ITEM 7**

Represents articles that may be impacted by this proposed code change item – Refer to those items in parentheses for related changes.

**(ITEM 3)** Chapter 1 General

*Articles 110.2 and 110.13(C)*

**(ITEM 4)** Chapter 4 Equipment for General Use

*Articles 404.4(C) and 406.9(C)(1)*

**(ITEM 9)** Chapter 5 Special Occupancies

*Articles 517.10(B)(2), 517.12(A), 517,18(B) Exc.3, 517,18(B) Exc.4, 517,18(B) Exc.5, 517.19.(B)(1) Exc., 517.22, 517.22(B)(1), 517.24, and 517.26*

**(ITEM 10)** Chapter 5 Special Occupancies

*Article 517.29(A.1)*

**(ITEM 11)** Chapter 5 Special Occupancies

*Articles 517.30(B)(1.1), 517.30(C), 517.31(B)(1)(3), 517.31(B)(3), 517.31(C)(3)(3)g, 517.31(D.1), 517.31(E), 517.34(A)(5), 517.34(A)(8), 517.34(A)(10), 517.35(A)(9) – (10), 517.35(B)(1.1) - (1.2), 517.42(E), 517.44(A)(6) Exc.1, 517.44(A)(7) – (10), and 517.44(B)(1.1)*

**(ITEM 12)** Chapter 5 Special Occupancies

*Articles 517.123*

**(ITEM 13)** Chapter 5 Special Occupancies

Article 517.124

**(ITEM 14)** Chapter 7 Special Conditions

*Article 700.12(B)(2) Exc’s., Exc.1, Exc.2, and Exc.3*

**Notation:**

Authority: Health and Safety Code, Sections 1275, 18928, 129790, and 129850

Reference: Health and Safety Code, Section 129850

## ITEM 8

**Chapter 5 Special Occupancies**

**ARTICLE 517 Health Care Facilities**

OSHPD proposes to amend Article 517.4 to correct title formatting and to add two additional California Building Code references for Services/Systems and Utilities which were missing from this requirement.

***517.4 [OSHPD 1, 1R, 2, 4 & 5].******Services/Systems and Utilities.*** *Refer to Sections 1224.4.1**.1, 1225.2.1, and 1228.4.1.1, California Building Code.*

**Notation:**

Authority: Health and Safety Code, Sections 1275, 18928, 129790, and 129850

Reference: Health and Safety Code, Section 129850

## ITEM 9

**Chapter 5 Special Occupancies**

**ARTICLE 517 Health Care Facilities**

OSHPD proposes to amend Articles 517.10(B)(2), 517.12(A), 517,18(B) Exc.3, 517,18(B) Exc.4, 517,18(B) Exc.5, 517.19.(B)(1) Exc., 517.22, 517.22(B)(1), and 517.26 by removing 1R from OSHPD banners. These requirements specify essential electrical systems for hospitals, intermediate and skilled nursing facilities, clinics, correctional treatment centers, and acute psychiatric hospitals. The requirements are occupancy based and not applicable to 1R building type so 1R designations are being removed from the OSHPD banners.

**517.10 Applicability.**

1. **Applicability.** Part II shall apply to patient care space of all health care facilities.
2. **Not Covered.** Part II shall not apply to the following:
3. Business offices, corridors, waiting rooms, and the like in clinics, medical and dental offices, and outpatient facilities
4. Areas of nursing homes and limited care facilities wired in accordance with Chapters 1 through 4 of this *Code* where these areas are used exclusively as patient sleeping rooms. *Not adopted by [OSHPD 1, ~~1R,~~ 2, 3, 4 & 5].*

…

**517.12 Wiring Methods.** Except as modified in this article, wiring methods shall comply with the applicable provisions of Chapters 1 through 4 of this *Code*.

***(A)*** *[OSHPD 1, ~~1R,~~ 2, 4 & 5] Wall spaces in patient care rooms shall not be used for the installation of switchboards and panelboards, unless dedicated for that room.*

…

**517.18 General Care (Category 2) Spaces.**

*…*

**(B) Patient Bed Location Receptacles.**

*…*

*Exception No 3: [OSHPD 1, ~~1R,~~ 2, 4 & 5] Hospital grade receptacles shall not be required in patient sleeping areas in nursing homes.*

…

*Exception No.4: [OSHPD 1*~~,~~ *~~1R,~~**& 5] Psychiatric patient bedrooms shall not be required to have receptacle outlets installed in the room. If installed, the receptacles shall be tamper-resistant, controlled by a switch outside the room that is under the control of staff, and shall be protected by a ground-fault circuit interrupter.*

*Exception No.5:**[OSHPD 1 ~~& 1R~~] Outpatient Observation bed and gurney locations shall be provided with a minimum of four receptacles.*

…

**517.19 Critical Care (Category 1) Spaces.**

…

**(B) Patient Bed Location Receptacles.**

**(1) Minimum Number and Supply.** Each patient bed location shall be provided with a minimum of 14 receptacles, at least one of which shall be connected to either of the following:

1. The normal system branch circuit required in 517.19(A)
2. A critical branch circuit supplied by a different transfer switch than the other receptacles at the same patient bed location

*[OSHPD 1, ~~1R,~~ 2, 4 & 5] Exception: Beds subject to the requirements of 517.40(B) shall be provided with a minimum of eight receptacles.*

…

***517.22 [OSHPD 1, ~~1R,~~ 2, 3, 4 & 5] Artificial Lighting.***

1. ***Rooms and Passageways.*** *All rooms and passageways shall be provided with artificial illumination.*
2. ***Illumination.***

***(1) [OSHPD 1, ~~1R,~~******3, 4 & 5] Illumination intensity.***

*…*

***517.24***

***WITHDRAW***

…

**517.26 Application of Other Articles.** The life safety branch, *[OSHPD 1, ~~1R,~~ 2, 3, 4 & 5] critical branch, and equipment branch* of the essential electrical system shall meet the requirements of Article 700, except as amended by Article 517.

**ASSOCIATED ARTICLES TO ITEM 9**

Represents articles that may be impacted by this proposed code change item – Refer to those items in parentheses for related changes.

**(ITEM 3)** Chapter 1 General

*Articles 110.2 and 110.13(C)*

**(ITEM 4)** Chapter 4 Equipment for General Use

*Articles 404.4(C) and 406.9(C)(1)*

**(ITEM 7)** Chapter 5 Special Occupancies

*Article 517.2, Definitions General Care (Category 2) Space and Critical Care (Category 1) Space*

**(ITEM 10)** Chapter 5 Special Occupancies

*Article 517.29(A.1)*

**(ITEM 11)** Chapter 5 Special Occupancies

*Articles 517.30(B)(1.1), 517.30(C), 517.31(B)(1)(3), 517.31(B)(3), 517.31(C)(3)(3)g, 517.31(D.1), 517.31(E), 517.34(A)(5), 517.34(A)(8), 517.34(A)(10), 517.35(A)(9) – (10), 517.35(B)(1.1) - (1.2), 517.42(E), 517.44(A)(6) Exc.1, 517.44(A)(7) – (10), and 517.44(B)(1.1)*

**(ITEM 12)** Chapter 5 Special Occupancies

*Articles 517.123*

**(ITEM 13)** Chapter 5 Special Occupancies

Article 517.124

**(ITEM 14)** Chapter 7 Special Conditions

*Article 700.12(B)(2) Exc’s., Exc.1, Exc.2, and Exc.3*

**Notation:**

Authority: Health and Safety Code, Sections 1275, 18928, 129790, and 129850

Reference: Health and Safety Code, Section 129850

## ITEM 10

**Chapter 5 Special Occupancies**

**ARTICLE 517 Health Care Facilities**

OSHPD proposes to amend Article 517.29(A.1) by removing 1R from OSHPD banners and by changing the code reference from 517.30 to 517.35. 517.29(A.1) specifies essential electrical system requirements for hospitals, intermediate and skilled nursing facilities with patients on life support, clinics with patients on life support or critical care patients, correctional treatment centers, and acute psychiatric hospitals with critical care patients. This code language is occupancy based and not applicable to 1R building type so the 1R designation is being removed from the OSHPD banner. Also, the code reference change from 517.30 to 517.35 is required because the code reference was inadvertently changed to 517.30 when the 2017 NEC renumbered the hospitals essential electrical system requirements.

**517.29 Essential Electrical Systems for Hospitals and Other Health Care Facilities.**

…

***(A.1) [OSHPD 1, ~~1R,~~******2, 3, 4 & 5] Applicability.*** *The requirements of Part III, 517.29 through ~~517.30~~ 517.35, shall apply to hospitals, facilities subject to the requirements of CEC 517.40(B), clinics subject to the requirements of CEC 517.45(B) or (C), correctional treatment centers and acute psychiatric hospitals providing critical care (Category 1) and/or general care (Category 2) services.*

**ASSOCIATED ARTICLES TO ITEM 10**

Represents articles that may be impacted by this proposed code change item – Refer to those items in parentheses for related changes.

**(ITEM 3)** Chapter 1 General

*Articles 110.2 and 110.13(C)*

**(ITEM 4)** Chapter 4 Equipment for General Use

*Articles 404.4(C) and 406.9(C)(1)*

**(ITEM 7)** Chapter 5 Special Occupancies

*Article 517.2, Definitions General Care (Category 2) Space and Critical Care (Category 1) Space*

**(ITEM 9)** Chapter 5 Special Occupancies

*Articles 517.10(B)(2), 517.12(A), 517,18(B) Exc.3, 517,18(B) Exc.4, 517,18(B) Exc.5, 517.19.(B)(1) Exc., 517.22, 517.22(B)(1), 517.24, and 517.26*

**(ITEM 11)** Chapter 5 Special Occupancies

*Articles 517.30(B)(1.1), 517.30(C), 517.31(B)(1)(3), 517.31(B)(3), 517.31(C)(3)(3)g, 517.31(D.1), 517.31(E), 517.34(A)(5), 517.34(A)(8), 517.34(A)(10), 517.35(A)(9) – (10), 517.35(B)(1.1) - (1.2), 517.42(E), 517.44(A)(6) Exc.1, 517.44(A)(7) – (10), and 517.44(B)(1.1)*

**(ITEM 12)** Chapter 5 Special Occupancies

*Articles 517.123*

**(ITEM 13)** Chapter 5 Special Occupancies

Article 517.124

**(ITEM 14)** Chapter 7 Special Conditions

*Article 700.12(B)(2) Exc’s., Exc.1, Exc.2, and Exc.3*

**Notation:**

Authority: Health and Safety Code, Sections 1275, 18928, 129790, and 129850

Reference: Health and Safety Code, Section 129850

## ITEM 11

**Chapter 5 Special Occupancies**

**ARTICLE 517 Health Care Facilities**

OSHPD proposes to amend Articles 517.30(B)(1.1), 517.30(C), 517.31(B)(1)(3), 517.31(B)(3), 517.31(C)(3)(3)g, 517.31(D.1), 517.31(E), 517.34(A)(5), 517.34(A)(8), 517.34(A)(10), 517.35(A)(9) – (10), 517.35(B)(1.1) - (1.2), 517.42(E), 517.44(A)(6) Exception No. 1, 517.44(A)(7) – (10), and 517.44(B)(1.1) by removing 1R from OSHPD banners. These requirements specify essential electrical systems for hospitals, intermediate and skilled nursing facilities, clinics, correctional treatment centers, and acute psychiatric hospitals. The requirements are occupancy based and not applicable to 1R building type so 1R designations are being removed from the OSHPD banners.

**517.30 Sources of Power.**

…

**(B) Types of Power Sources.**

1. **Generating Units.** Where the normal source consists of generating units on the premises, the alternate source shall be either another generating set or an external utility service. [**99:**6.4.1.1.5]

***(1.1) [OSHPD 1, ~~1R,~~******3, 4 and 5]******Generating Units.*** *The alternate source of power shall be one of the following:*

…

1. **Fuel Cell Systems.**

…

**(C) Location of Essential Electrical System Components.** Essential electrical systems components shall be located to minimize interruptions caused by natural forces common the area (e.g. storms, floods, earthquakes, or hazards created by adjoining structures or activities). Installation of electrical services shall be located to reduce possible interruption of normal electrical services resulting from similar causes as well as possible disruption of normal electrical service due to internal wiring and equipment failures. Feeders shall be located to provide physical separation of the feeders of the alternate source and from the feeders of the normal electrical source to prevent possible simultaneous interruption. *[OSHPD 1, ~~1R,~~ 4 & 5] Refer to California Building Code, Section 1617A.1.40.*

…

**517.31 Requirements for the Essential Electrical System.**

…

**(B) Transfer Switches.**

…

(**1) Optional Loads.** Loads served by the generating equipment not specifically named in Article 517 shall be served by their own transfer switches such that the following conditions apply:

1. These loads shall not be transferred if the transfer will overload the generating equipment.
2. These loads shall be automatically shed upon generating equipment overloading.
3. *[For OSHPD 1, ~~1R,~~ 2, 3, 4 & 5] Loads served by such transfer switches, including the receptacles required to be supplied by the normal system pursuant to Articles 517.18 and 517.19, shall not be used to meet essential electrical system requirements.*

…

***(B)(3) Bypass Isolation.***  *[OSHPD 1, ~~1R,~~ & 2 (facilities complying with Article 517.40(B)), 3 (surgical clinics), 4 & 5] All automatic transfer shall be provided with an in-phase monitor relay and shall have provisions for electrically by-passing and isolating the transfer switch. The by-pass switch shall be capable of by-passing loads to the emergency source or normal source if the selected by-pass source voltage is available.*

…

**(C) Wiring Requirements.**

…

**(3) Mechanical Protection of the Essential Electrical System.** The wiring of the life safety and critical branches shall be mechanically protected. Where installed as branch circuits in patient care spaces, the installation shall comply with the requirements of 517.13(A) and (B). Only the following wiring methods shall be permitted:

1. Nonflexible metal raceways, **…**
2. Where encased in not less than 50 mm (2 in.) of concrete, **…**
3. Listed flexible metal raceways and listed metal sheathed cable assemblies in any of the following:

…

1. *[OSHPD 1, ~~1R,~~ 2, 3 (surgery clinics), 4 & 5] Where necessary to allow relative movement between immediately adjacent buildings*

…

***(D.1)******[OSHPD 1, ~~1R,~~******2, 3, 4 & 5] Capacity of Systems.*** *The essential electrical system shall have the capacity and rating to meet the maximum actual demand likely to be produced by the connected load.*

**(E) Receptacle Identification.**  The cover plates for the electrical receptacles *[For OSHPD 1, ~~1R,~~ 2, 3, 4 & 5] and light switches* or the electrical receptacles *[For OSHPD 1, ~~1R,~~ 2, 3, 4 & 5] and light switches* themselves supplied from the essential electrical system shall have a distinctive color or marking so as to be readily identifiable. [**99:**6.4.2.2.6.2(C)]

…

**517.34 Critical Branch.**

**(A) Task Illumination and Selected Receptacles.**

…

(5) Nurse call systems

*[OSHPD 1, ~~1R,~~ 2, 3, 4 & 5] Exception: Battery powered components of wireless emergency nurse call systems complying with the latest edition of ANSI/UL 1069, Standard for Hospital Signaling and Nurse Call Equipment.*

…

(8) Task illumination, selected receptacles, and selected power circuits for the following:

…

*[Subsections j through k OSHPD 1, ~~1R,~~ 2, 3 (surgery clinics), 4+ & 5]*

1. *Food preparation areas, central supply, and utility rooms*
2. *Electrical and mechanical rooms*

…

*(10) [OSHPD 1, ~~1R,~~ 2, 3, & 4 & 5] The following equipment:*

…

**517.35 Equipment Branch Connection to Alternate Power Source.**

…

**(A) Equipment for Delayed Automatic Connection.**

…

1. *[OSHPD 1, ~~1R,~~ 2, 3 (surgical clinics), 4 & 5] All equipment as required listed in the Essential Plumbing Provisions Section 310.0 of the California Plumbing Code.*
2. *[OSHPD 1, ~~1R,~~ 2, 3, 4 & 5] Where provided, UPS systems serving telephone, data, technology and telecommunications equipment rooms and closets.*

…

**(B) Equipment for Delayed Automatic or Manual Connection.**

…

1. *[OSHPD 1, ~~1R~~*~~,~~ *2, 3 (surgery clinics), 4 & 5] Heating, ventilating and cooling equipment as required by the California Mechanical Code.*
2. *[OSPHD 1,* *~~1R,~~ 2, 3 (surgery clinics), 4 & 5] Pressure maintenance (jockey or make-up) pumps for water-based fire suppression systems.*

…

**517.42 Essential Electrical Systems.**

…

**(E) Receptacle Identification.** The electrical receptacles *[OSHPD 1,* *~~1R,~~ 2, 4 & 5] and light switches* or the cover plates for the electrical receptacles *[OSHPD 1,* *~~1R,~~**2, 4 & 5] and light switches* supplied from the life safety or equipment branches shall have a distinctive color or marking to be readily identifiable. [**99:**6.5.2.2.4.2]

…

**517.44 Connection to Equipment Branch.**

…

(**A) Delayed Automatic Connections to Equipment Branch.**

…

(6) Nurse call systems

[**99:**6.5.2.2.3.3]

*[OSHPD 1, ~~1R,~~ 2, 4 & 5] Exception No. 1: Battery powered components of wireless emergency nurse call systems complying with the latest edition of ANSI/UL 1069, Standard for Hospital Signaling and Nurse Call Equipment.*

…

1. *[OSHPD 1, ~~1R,~~ 2, 4 & 5] Selected receptacles in patient room corridors so that any patient bed can be reached with fifty (50) foot extension cord.*
2. *[OSHPD 1, ~~1R,~~ 2, 4 & 5] Task lighting and at least one receptacle in electrical and mechanical rooms.*
3. *[OSHPD 1, ~~1R,~~ 2, 4 & 5] Sensor-operated fixtures required by the California Plumbing Code, where direct wired.*
4. *[OSHPD 1, ~~1R,~~ 2, 4 & 5] Equipment as required in the Essential Plumbing Provisions of the California Plumbing Code.*

…

(**B) Delayed Automatic or Manual Connection to the Equipment Branch.** The following equipment shall be permitted to be connected to the critical equipment branch and shall be arranged for either delayed automatic or manual connection to the alternate power source:

…

*(1.1) [OSHPD 1, ~~1R,~~ 2, 4 & 5] Heating, ventilating, and cooling equipment as required by California Mechanical Code.*

**ASSOCIATED ARTICLES TO ITEM 11**

Represents articles that may be impacted by this proposed code change item – Refer to those items in parentheses for related changes

**(ITEM 3)** Chapter 1 General

*Articles 110.2 and 110.13(C)*

**(ITEM 4)** Chapter 4 Equipment for General Use

*Articles 404.4(C) and 406.9(C)(1)*

**(ITEM 7)** Chapter 5 Special Occupancies

*Article 517.2, Definitions General Care (Category 2) Space and Critical Care (Category 1) Space*

**(ITEM 9)** Chapter 5 Special Occupancies

*Articles 517.10(B)(2), 517.12(A), 517,18(B) Exc.3, 517,18(B) Exc.4, 517,18(B) Exc.5, 517.19.(B)(1) Exc., 517.22, 517.22(B)(1), 517.24, and 517.26*

**(ITEM 10)** Chapter 5 Special Occupancies

*Article 517.29(A.1)*

**(ITEM 12)** Chapter 5 Special Occupancies

*Articles 517.123*

**(ITEM 13)** Chapter 5 Special Occupancies

Article 517.124

**(ITEM 14)** Chapter 7 Special Conditions

*Article 700.12(B)(2) Exc’s., Exc.1, Exc.2, and Exc.3*

**Notation:**

Authority: Health and Safety Code, Sections 1275, 18928, 129790, and 129850

Reference: Health and Safety Code, Section 129850

## ITEM 12

**Chapter 5 Special Occupancies**

**ARTICLE 517 Health Care Facilities**

OSHPD proposes to amend Articles 517.123(A)(5) – 517.123(A)(5)(c) to remove duplicate nurse call system requirements for psychiatric nursing units currently found in 517.123 (F) and amend Articles 517.123 OSHPD banner to remove 1R from OSHPD banner because nurse call systems requirements are occupancy based (i.e., hospitals, intermediate and skilled nursing facilities, clinics, correctional treatment centers, and acute psychiatric hospitals) and not applicable to 1R building type.

***517.123 [OSHPD 1, ~~1R,~~******2, 3, 4 & 5] Call Systems***

***(A) General.***

*…*

*~~(5) Where nurse call is installed but not required in psychiatric nursing units, the equipment shall meet the following requirements:~~*

1. *~~Provisions shall be made for easy removal or for covering of call button outlets.~~*
2. *~~All hardware shall have tamper-resistant fasteners.~~*
3. *~~Cords at all call stations in rooms designated for psychiatric patient use shall be detachable.~~*

**ASSOCIATED ARTICLES TO ITEM 12**

Represents articles that may be impacted by this proposed code change item – Refer to those items in parentheses for related changes.

**(ITEM 3)** Chapter 1 General

*Articles 110.2 and 110.13(C)*

**(ITEM 4)** Chapter 4 Equipment for General Use

*Articles 404.4(C) and 406.9(C)(1)*

**(ITEM 7)** Chapter 5 Special Occupancies

*Article 517.2, Definitions General Care (Category 2) Space and Critical Care (Category 1) Space*

**(ITEM 9)** Chapter 5 Special Occupancies

*Articles 517.10(B)(2), 517.12(A), 517,18(B) Exc.3, 517,18(B) Exc.4, 517,18(B) Exc.5, 517.19.(B)(1) Exc., 517.22, 517.22(B)(1), 517.24, and 517.26*

**(ITEM 10)** Chapter 5 Special Occupancies

*Article 517.29(A.1)*

**(ITEM 11)** Chapter 5 Special Occupancies

*Articles 517.30(B)(1.1), 517.30(C), 517.31(B)(1)(3), 517.31(B)(3), 517.31(C)(3)(3)g, 517.31(D.1), 517.31(E), 517.34(A)(5), 517.34(A)(8), 517.34(A)(10), 517.35(A)(9) – (10), 517.35(B)(1.1) - (1.2), 517.42(E), 517.44(A)(6) Exc.1, 517.44(A)(7) – (10), and 517.44(B)(1.1)*

**(ITEM 13)** Chapter 5 Special Occupancies

Article 517.124

**(ITEM 14)** Chapter 7 Special Conditions

*Article 700.12(B)(2) Exc’s., Exc.1, Exc.2, and Exc.3*

**Notation:**

Authority: Health and Safety Code, Sections 1275, 18928, 129790, and 129850

Reference: Health and Safety Code, Section 129850

## ITEM 13

**Chapter 5 Special Occupancies**

**ARTICLE 517 Health Care Facilities**

OSHPD proposes to amend Article 517.124 to remove 1R from OSHPD banners. 517.124 are technology and telecommunication room requirements for hospitals, correctional treatment centers, and acute psychiatric hospitals. These code requirements are occupancy based and not applicable to 1R building type so the 1R designation is being removed from the OSHPD banner.

***517.124 [OSHPD 1,*** ***~~1R,~~ 4 & 5] Technology and Telecommunications Rooms.***

**ASSOCIATED ARTICLES TO ITEM 13**

Represents articles that may be impacted by this proposed code change item – Refer to those items in parentheses for related changes.

**(ITEM 3)** Chapter 1 General

*Articles 110.2 and 110.13(C)*

**(ITEM 4)** Chapter 4 Equipment for General Use

*Articles 404.4(C) and 406.9(C)(1)*

**(ITEM 7)** Chapter 5 Special Occupancies

*Article 517.2, Definitions General Care (Category 2) Space and Critical Care (Category 1) Space*

**(ITEM 9)** Chapter 5 Special Occupancies

*Articles 517.10(B)(2), 517.12(A), 517,18(B) Exc.3, 517,18(B) Exc.4, 517,18(B) Exc.5, 517.19.(B)(1) Exc., 517.22, 517.22(B)(1), 517.24, and 517.26*

**(ITEM 10)** Chapter 5 Special Occupancies

*Article 517.29(A.1)*

**(ITEM 11)** Chapter 5 Special Occupancies

*Articles 517.30(B)(1.1), 517.30(C), 517.31(B)(1)(3), 517.31(B)(3), 517.31(C)(3)(3)g, 517.31(D.1), 517.31(E), 517.34(A)(5), 517.34(A)(8), 517.34(A)(10), 517.35(A)(9) – (10), 517.35(B)(1.1) - (1.2), 517.42(E), 517.44(A)(6) Exc.1, 517.44(A)(7) – (10), and 517.44(B)(1.1)*

**(ITEM 12)** Chapter 5 Special Occupancies

*Articles 517.123*

**(ITEM 14)** Chapter 7 Special Conditions

*Article 700.12(B)(2) Exc’s., Exc.1, Exc.2, and Exc.3*

**Notation:**

Authority: Health and Safety Code, Sections 1275, 18928, 129790, and 129850

Reference: Health and Safety Code, Section 129850

## ITEM 14

**Chapter 7 Special Conditions**

**ARTICLE 700 Emergency Systems**

OSHPD proposes to amend Article 700.12(B)(2) Exceptions, Exception No.1, Exception No.2 and Exception No.3 to remove 1R from OSHPD banners. 700.12(B)(2) exceptions specifies on-premises fuel supply requirements for acute care hospitals, correctional treatment centers, acute psychiatric hospitals, intermediate care facilities, skilled nursing facilities and ambulatory surgical clinics. These exceptions are occupancy based and not applicable to 1R building type so the 1R designation is being removed from the OSHPD banner.

**700.12 General Requirements.**

...

**(B) Generator Set.**

…

**(2) Internal Combustion Engines as Prime Movers.** Where internal combustion engines are used as the prime mover, an on-site fuel supply shall be provided with an on-premises fuel supply sufficient for not less than 2 hours full-demand operation of the system. Where power is needed for the operation of the fuel transfer pumps to deliver fuel to a generator set day tank, this pump shall be connected to the emergency power system.

Exceptions [SFM, OSHPD 1, *~~1R,~~* 2, 3, 4 & 5]

Exception No.1: [SFM, OSHPD 1, *~~1R,~~* 2, 3, 4 & 5] The on-premises fuel supply shall be sufficient for not less than 24 hours full-demand operation in acute general care hospitals and correctional treatment centers that provide optional services. For acute care hospital facilities required to meet NPC-5, the on-premises fuel supply shall be sufficient for no less than 72 hours full-demand operations.

Exception No. 2: [SFM, OSHPD 1, *~~1R,~~*2, 3, 4 & 5] The on-premises fuel supply shall be sufficient for not less than 6 hours full-demand operation in the following health facilities of seven or more beds: correctional treatment centers that provide only basic services, acute psychiatric hospitals, intermediate care facilities, and skilled nursing facilities.

Exception No. 3: [SFM, OSHPD 1, *~~1R,~~*2, 3, 4 & 5] The on-premises fuel supply shall be sufficient for not less than 4 hours full-demand operation in ambulatory surgical clinics.

**ASSOCIATED ARTICLES TO ITEM 14**

Represents articles that may be impacted by this proposed code change item – Refer to those items in parentheses for related changes.

**(ITEM 3)** Chapter 1 General

*Articles 110.2 and 110.13(C)*

**(ITEM 4)** Chapter 4 Equipment for General Use

*Articles 404.4(C) and 406.9(C)(1)*

**(ITEM 7)** Chapter 5 Special Occupancies

*Article 517.2, Definitions General Care (Category 2) Space and Critical Care (Category 1) Space*

**(ITEM 9)** Chapter 5 Special Occupancies

*Articles 517.10(B)(2), 517.12(A), 517,18(B) Exc.3, 517,18(B) Exc.4, 517,18(B) Exc.5, 517.19.(B)(1) Exc., 517.22, 517.22(B)(1), 517.24, and 517.26*

**(ITEM 10)** Chapter 5 Special Occupancies

*Article 517.29(A.1)*

**(ITEM 11)** Chapter 5 Special Occupancies

*Articles 517.30(B)(1.1), 517.30(C), 517.31(B)(1)(3), 517.31(B)(3), 517.31(C)(3)(3)g, 517.31(D.1), 517.31(E), 517.34(A)(5), 517.34(A)(8), 517.34(A)(10), 517.35(A)(9) – (10), 517.35(B)(1.1) - (1.2), 517.42(E), 517.44(A)(6) Exc.1, 517.44(A)(7) – (10), and 517.44(B)(1.1)*

**(ITEM 12)** Chapter 5 Special Occupancies

*Articles 517.123*

**(ITEM 13)** Chapter 5 Special Occupancies

Article 517.124

**Notation:**

Authority: Health and Safety Code, Sections 1275, 18928, 129790, and 129850

Reference: Health and Safety Code, Section 129850

## ITEM 15

**Chapter 7 Special Conditions**

**ARTICLE 700 Emergency Systems**

OSHPD proposes to amend Article 700.12(E) to add an exception to clarify on-premises fuel storage requirements for fuel cell systems used as an alternate source of electrical power at OSHPD healthcare facilities.

**700.12 General Requirements.**

...

**(E) Fuel Cell System.** Fuel cell systems used as a source of power for emergency systems shall be of suitable rating and capacity to supply and maintain the total load for not less than 2 hours of full-demand operation.

*Exception: [OSHPD 1, 2, 3, 4 & 5] Fuel cell system shall meet on-premises fuel requirements specified in Article 700.12 (B)(2).*

*…*

**Notation:**

Authority: Health and Safety Code, Sections 1275, 18928, 129790, and 129850

Reference: Health and Safety Code, Section 129850