# FINAL EXPRESS TERMSFOR PROPOSED BUILDING STANDARDSOF THE OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENTREGARDING THE 2022 CALIFORNIA ELECTRICAL CODE

# CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 3

# (OSHPD 01/20)

The State agency shall draft the regulations in plain, straightforward language, avoiding technical terms as much as possible and using a coherent and easily readable style. The agency shall draft the regulation in plain English. A notation shall follow the express terms of each regulation listing the specific statutes authorizing the adoption and listing specific statutes being implemented, interpreted, or made specific (Government Code Section 11346.2(a)(1)).

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

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

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* Repealed model code language appears ~~upright and in strikeout~~
* Repealed California amendments appear in *~~italic and strikeout~~*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

# FINAL EXPRESS TERMS

# Item 1CALIFORNIA ARTICLE 89 GENERAL CODE PROVISIONS

Carry forward Article 89 of the 2019 California Electrical Code (CEC) for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 2ARTICLE 90 Introduction

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 3Chapter 1 GeneralARTICLE 100 Definitions

Adopt entire 2020 National Electric Code (NEC) Article, carry forward existing amendment of the 2019 California Electrical Code (CEC) for OSHPD 1, 2, 3, 4 & 5, and make the following amendment:

**Part I. General**

…

**Coordination, Selective (Selective Coordination).** Localization of an overcurrent condition to restrict outages to the circuit or equipment affected, accomplished by the selection and installation of overcurrent protective devices and their ratings or settings for the full range of available overcurrents, from overload to the available fault current, and for the full range of overcurrent protective device opening times associated with those overcurrents. (CMP-10)

***[OSHPD 1, 2, 3, ~~&~~ 4 & 5] Coordination.*** *Localization of an overcurrent condition to restrict outages to the circuit or equipment affected, accomplished by the selection and installation of overcurrent protective devices and their ratings or settings utilizing the 0.10 second level of the overcurrent protective device from the time current curve as the basis for the lower limit of the calculation method*.

…

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 4 – Not Used

# Item 5Chapter 1 GeneralARTICLE 110 Requirements for Electrical Installations

Adopt entire 2020 National Electric Code (NEC) Article and make the following OSHPD amendments for OSHPD 1, 1R, 2, 3, 4 & 5 in Items 5 and 6.

**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 the equipment meets the following requirements:*

* *Equipment is approved, 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*
* *When field evaluated, equipment is evaluated and labeled by a Field Evaluation Body (FEB) that is accredited by International Accreditation Services (IAS) in accordance with NFPA 790.*
* *Equipment has special seismic certifications when required by Sections 1705.13.3 and 1705A.13.3 of California Building Code.*

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 6Chapter 1 GeneralARTICLE 110 Requirements for Electrical Installations

**110.26 Spaces About Electrical Equipment.**

…

**(C) Entrance to and Egress from Working Space.**

…

**(3) Personnel Doors.** Where equipment rated 800 amperes or more that contains overcurrent devices, switching devices, or control devices is installed and there is a personnel door(s) intended for entrance to and egress from the working space less than 7.6 m (25 ft) from the nearest edge of the working space, the door(s) shall open in the direction of egress and be equipped with listed panic hardware or listed fire exit hardware.

*[OSHPD 1, 1R, 2, 3, 4 & 5]: See California Building Code, Section 1010.1.10 for additional exit door requirements for electrical room with equipment rated 800-amperes or more.*

Informational Note: For information on panic hardware, see UL 305, Standard For Safety For Panic Hardware. For fire exit hardware, see UL 305, Standard For Panic Hardware, and UL 10C, Standard for Safety for Positive Pressure Fire Tests of Door Assemblies.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 7Chapter 2 Wiring and ProtectionARTICLE 200 Use and Identification of Grounded Conductors

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 8Chapter 2 Wiring and ProtectionARTICLE 210 Branch Circuits

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 9Chapter 2 Wiring and ProtectionARTICLE 215 Feeders

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 10Chapter 2 Wiring and ProtectionARTICLE 220 Branch-Circuit, Feeder, And Service Load Calculations

Adopt entire 2020 National Electric Code (NEC) Article for OSHPD 1R, 2, 3, 4 & 5.

Adopt entire 2020 National Electric Code (NEC) Article, carry forward existing amendment of the 2019 California Electrical Code (CEC) for OSHPD 1, and make the following amendment:

**220.42 General Lighting.** The demand factors specified in Table 220.42 shall apply to that portion of the total branch-circuit load calculated for general illumination. They shall not be applied in determining the number of branch circuits for general illumination.

*[OSHPD 1] The factors of Table 220.42 shall not be applied in the following areas: surgery suite, including recovery; emergency department, kitchen, food service, dining, critical care areas as defined in Article 517, elevator lobbies, corridors, inpatient nurse stations, and loads connected to the life safety branch or the critical branch of the ~~emergency~~ essential electrical system. Administrative areas shall be included in “All others” Type of Occupancy.*

*…*

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 11Chapter 2 Wiring and ProtectionARTICLE 225 Outside Branch Circuits and Feeders

Adopt entire 2020 National Electrical Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 12Chapter 2 Wiring and ProtectionARTICLE 230 Services

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 13Chapter 2 Wiring and ProtectionARTICLE 240 Overcurrent Protection

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 14Chapter 2 Wiring and ProtectionARTICLE 242 Overvoltage Protection

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 15Chapter 2 Wiring and ProtectionARTICLE 250 Grounding and Bonding

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 16Chapter 3 Wiring Methods and MaterialsARTICLE 300 General Requirements for Wiring Methods and Materials

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 17Chapter 3 Wiring Methods and MaterialsARTICLE 310 Conductors for General Wiring

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 18Chapter 3 Wiring Methods and MaterialsARTICLE 311 Medium Voltage Conductors and Cable

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 19Chapter 3 Wiring Methods and MaterialsARTICLE 312 Cabinets, Cutout Boxes, and Meter Socket Enclosures

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 20Chapter 3 Wiring Methods and MaterialsARTICLE 314 Outlet, Device, Pull, and Junction Boxes; Conduit Bodies; Fittings; and Handhole Enclosures

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 21Chapter 3 Wiring Methods and MaterialsARTICLE 320 Armored Cable: Type AC

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 22Chapter 3 Wiring Methods and MaterialsARTICLE 322 Flat Cable Assemblies: Type FC

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 23Chapter 3 Wiring Methods and MaterialsARTICLE 324 Flat Conductor Cable: Type FCC

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 24Chapter 3 Wiring Methods and MaterialsARTICLE 326 Integrated Gas Spacer Cable: Type IGS

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 25Chapter 3 Wiring Methods and MaterialsARTICLE 330 Metal-Clad Cable: Type MC

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 26Chapter 3 Wiring Methods and MaterialsARTICLE 332 Mineral-Insulated, Metal-Sheathed Cable: Type MI

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 27Chapter 3 Wiring Methods and MaterialsARTICLE 334 Nonmetallic-Sheathed Cable: Types NM~~,~~ and NMC

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 28Chapter 3 Wiring Methods and MaterialsARTICLE 336 Power and Control Tray Cable: Type TC

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 29Chapter 3 Wiring Methods and MaterialsARTICLE 337 Type P Cable

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 30Chapter 3 Wiring Methods and MaterialsARTICLE 338 Service-Entrance Cable: Types SE and USE

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 31Chapter 3 Wiring Methods and MaterialsARTICLE 340 Underground Feeder And Branch-Circuit Cable: Type UF

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 32Chapter 3 Wiring Methods and MaterialsARTICLE 342 Intermediate Metal Conduit: Type IMC

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 33Chapter 3 Wiring Methods and MaterialsARTICLE 344 Rigid Metal Conduit: Type RMC

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 34Chapter 3 Wiring Methods and MaterialsARTICLE 348 Flexible Metal Conduit: Type FMC

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 35Chapter 3 Wiring Methods and MaterialsARTICLE 350 Liquidtight Flexible Metal Conduit: Type LFMC

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 36Chapter 3 Wiring Methods and MaterialsARTICLE 352 Rigid Polyvinyl Chloride Conduit: Type PVC

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 37Chapter 3 Wiring Methods and MaterialsARTICLE 353 High Density Polyethylene Conduit: Type HDPE Conduit

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 38Chapter 3 Wiring Methods and MaterialsARTICLE 354 Nonmetallic Underground Conduit with Conductors: Type NUCC

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 39Chapter 3 Wiring Methods and MaterialsARTICLE 355 Reinforced Thermosetting Resin Conduit: Type RTRC

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 40Chapter 3 Wiring Methods and MaterialsARTICLE 356 Liquidtight Flexible Nonmetallic Conduit: Type LFNC

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 41Chapter 3 Wiring Methods and MaterialsARTICLE 358 Electrical Metallic Tubing: Type EMT

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 42Chapter 3 Wiring Methods and MaterialsARTICLE 360 Flexible Metallic Tubing: Type FMT

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 43Chapter 3 Wiring Methods and MaterialsARTICLE 362 Electrical Nonmetallic Tubing: Type ENT

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 44Chapter 3 Wiring Methods and MaterialsARTICLE 366 Auxiliary Gutters

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 45Chapter 3 Wiring Methods and MaterialsARTICLE 368 Busways

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 46Chapter 3 Wiring Methods and MaterialsARTICLE 370 Cablebus

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 47Chapter 3 Wiring Methods and MaterialsARTICLE 372 Cellular Concrete Floor Raceways

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 48Chapter 3 Wiring Methods and MaterialsARTICLE 374 Cellular Metal Floor Raceways

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 49Chapter 3 Wiring Methods and MaterialsARTICLE 376 Metal Wireways

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 50Chapter 3 Wiring Methods and MaterialsARTICLE 378 Nonmetallic Wireways

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 51Chapter 3 Wiring Methods and MaterialsARTICLE 380 Multioutlet Assembly

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 52Chapter 3 Wiring Methods and MaterialsARTICLE 382 Nonmetallic Extensions

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 53Chapter 3 Wiring Methods and MaterialsARTICLE 384 Strut-Type Channel Raceway

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 54Chapter 3 Wiring Methods and MaterialsARTICLE 386 Surface Metal Raceways

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 55Chapter 3 Wiring Methods and MaterialsARTICLE 388 Surface Nonmetallic Raceways

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 56Chapter 3 Wiring Methods and MaterialsARTICLE 390 Underfloor Raceways

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 57Chapter 3 Wiring Methods and MaterialsARTICLE 392 Cable Trays

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 58Chapter 3 Wiring Methods and MaterialsARTICLE 393 Low-Voltage Suspended Ceiling Power Distribution Systems

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

 **Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 59Chapter 3 Wiring Methods and MaterialsARTICLE 394 Concealed Knob-And-Tube Wiring

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 60Chapter 3 Wiring Methods and MaterialsARTICLE 396 Messenger-Supported Wiring

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 61Chapter 3 Wiring Methods and MaterialsARTICLE 398 Open Wiring on Insulators

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 62Chapter 3 Wiring Methods and MaterialsARTICLE 399 Outdoor Overhead Conductors Over 1000 Volts

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 63Chapter 4 Equipment for General UseARTICLE 400 Flexible Cords and Cables

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 64Chapter 4 Equipment for General UseARTICLE 402 Fixture Wires

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 65Chapter 4 Equipment for General UseARTICLE 404 Switches

Adopt entire 2020 National Electric Code (NEC) Article for OSHPD 1R & 3. Adopt entire 2020 National Electric Code (NEC) Article, carry forward existing amendment of the 2019 California Electrical Code (CEC) for OSHPD 1, 2, 4 & 5, and make the following amendment:

**404.4 Damp or Wet Locations.**

…

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

*[OSHPD 1, 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 900mm (3 ft) ~~5 feet (1.52m)~~ of the perimeter of bathtubs or shower stalls.*

*Exception 1: Bath station devices for Call Systems meeting the requirements of 517.123(C)(4) shall be permitted to be installed outside the perimeter of bathtubs or shower stalls.*

*Exception 2: Bath station devices for Call Systems meeting the requirements of 517.123(C)(3) shall be permitted to be installed within the tub or shower spaces.*

…

**ASSOCIATED ARTICLES TO ITEM 65**

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

**(ITEM 66)** Chapter 4 Equipment for General Use

Section: 406.9(C)(1)

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 66Chapter 4 Equipment for General UseARTICLE 406 Receptacles, Cord Connectors, and Attachment Plugs

Adopt entire 2020 National Electric Code (NEC) Article for OSHPD 1R & 3. Adopt entire 2020 National Electric Code (NEC) Article, repeal existing amendment of the 2019 California Electrical Code (CEC) for OSHPD 1, 2, 4 & 5, and make the following amendment:

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

…

**(C) Bathtub and Shower Space**. Receptacles shall not be installed within a zone measured 900 mm (3 ft) horizontally and 2.5 m (8 ft) vertically from the top of the bathtub rim or shower stall threshold. The identified zone is all-encompassing and shall include the space directly over the tub or shower stall.

Exception: In bathrooms with less than the required zone the receptacle(s) shall be permitted to be installed opposite the bathtub rim or shower stall threshold on the farthest wall within the room. *[OSHPD 1, 2, 4 & 5] Exception not adopted.*

*~~(1) [OSHPD 1, 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 66**

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

**(ITEM 65)** Chapter 4 Equipment for General Use

Section: 404.4(C)

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 67Chapter 4 Equipment for General UseARTICLE 408 Switchboards, Switchgear, and Panelboards

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 68Chapter 4 Equipment for General UseARTICLE 409 Industrial Control Panels

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 69Chapter 4 Equipment for General UseARTICLE 410 Luminaires, Lampholders, and Lamps

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 70Chapter 4 Equipment for General UseARTICLE 411 Low-Voltage Lighting

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 71Chapter 4 Equipment for General UseARTICLE 422 Appliances

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 72Chapter 4 Equipment for General UseARTICLE 424 Fixed Electric Space-Heating Equipment

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 73Chapter 4 Equipment for General UseARTICLE 425 Fixed Resistance and Electrode Industrial Process Heating Equipment

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 74Chapter 4 Equipment for General UseARTICLE 426 Fixed Outdoor Electric Deicing and Snow-Melting Equipment

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 75Chapter 4 Equipment for General UseARTICLE 427 Fixed Electric Heating Equipment for Pipelines and Vessels

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 76Chapter 4 Equipment for General UseARTICLE 430 Motors, Motor Circuits, and Controllers

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 77Chapter 4 Equipment for General UseARTICLE 440 Air-Conditioning and Refrigerating Equipment

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 78Chapter 4 Equipment for General UseARTICLE 445 Generators

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 79Chapter 4 Equipment for General UseARTICLE 450 Transformers and Transformer Vaults (Including Secondary Ties)

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 80Chapter 4 Equipment for General UseARTICLE 455 Phase Converters

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 81Chapter 4 Equipment for General UseARTICLE 460 Capacitors

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 82Chapter 4 Equipment for General UseARTICLE 470 Resistors and Reactors

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 83Chapter 4 Equipment for General UseARTICLE 480 Storage Batteries

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 84Chapter 4 Equipment for General UseARTICLE 490 Equipment, Over 1000 Volts, Nominal

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 85Chapter 5 Special OccupanciesARTICLE 500 Hazardous (Classified) Locations, Classes I, II, and III, Divisions 1 and 2

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 86Chapter 5 Special OccupanciesARTICLE 501 Class I Locations

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 87Chapter 5 Special OccupanciesARTICLE 502 Class II Locations

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 88Chapter 5 Special OccupanciesARTICLE 503 Class III Locations

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 89Chapter 5 Special OccupanciesARTICLE 504 Intrinsically Safe Systems

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 90Chapter 5 Special OccupanciesARTICLE 505 Zone 0, 1, And 2 Locations

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 91Chapter 5 Special OccupanciesARTICLE 506 Zone 20, 21, And 22 Locations for Combustible Dusts or Ignitible Fibers/Flyings

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 92Chapter 5 Special OccupanciesARTICLE 510 Hazardous (Classified) Locations – Specific

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 93Chapter 5 Special OccupanciesARTICLE 511 Commercial Garages, Repair and Storage

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 94Chapter 5 Special OccupanciesARTICLE 513 Aircraft Hangars

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 95Chapter 5 Special OccupanciesARTICLE 514 Motor Fuel Dispensing Facilities

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 96Chapter 5 Special OccupanciesARTICLE 515 Bulk Storage Plants

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 97Chapter 5 Special OccupanciesARTICLE 516 Spray Application, Dipping, Coating, And Printing Processes Using Flammable or Combustible Materials

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 98Chapter 5 Special OccupanciesARTICLE 517 Health Care Facilities

Adopt entire 2020 National Electric Code (NEC) Article, carry forward existing amendments of the 2019 California Electrical Code (CEC) for OSHPD 1, 2, 3, 4 & 5 and make the following amendments in Item 98 - 110:

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

…

***(B) Illumination.***

***(1) [OSHPD 1, 3, 4 & 5] Illumination intensity.*** *Illumination intensity values in each area shall meet the recommended values in the latest edition of ~~the Illuminating Engineering Society of North America (IESNA) Lighting Handbook~~* *ANSI/IES RP-29, Recommended Practice: Lighting Hospital and Healthcare Facilities.*

…

***(2) [OSHPD 2] Minimum illuminance.*** *Minimum maintained average illuminance in each area shall meet the recommended values in the latest edition of ANSI/IES~~NA~~ RP-28, Recommended Practice: ~~Recommended Practice for~~ Lighting and the Visual Environment for ~~Senior Living~~ Older Adults and the Visually Impaired.*

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 99Chapter 5 Special OccupanciesARTICLE 517 Health Care Facilities

**517.29 Type 1 Essential Electrical Systems.**

…

***(A.1) [OSHPD 1, 2, 3, 4 & 5] Applicability.*** *The requirements of Part III, 517.29 through 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.*

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 100Chapter 5 Special OccupanciesARTICLE 517 Health Care Facilities

**517.30 Sources of Power**

…

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

…

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

*(A) Generator(s) driven by some form of prime mover(s) and located on the premises.*

*(B) Another generating unit(s) where the normal source consists of a generating unit(s) located on the premises.*

*(C) As provided in paragraph (B)(2) below.*

*(D) As provided in paragraph (B)(3) below.*

 *All on-premises sources of power shall meet the on-premises fuel or battery stored energy requirements specified in Article 700.12.*

*[OSHPD 1, 2, & 5]:* *For facilities subject to Centers for Medicare and Medicaid Services (CMS) regulations, see* *42 CFR 482.15(e) and 42 CFR 483.73(e) for emergency generator requirements.*

**(2) Fuel Cell Systems. …**

**(3) Battery Systems.** Battery systems shall be permitted to serve as the alternate source for all or part of an essential electrical system.*[OSHPD 1, 3, 4 and 5] Where life safety and critical portions of the distribution system are present, a connection shall be provided for a portable diesel generator.*

**ASSOCIATED ARTICLES TO ITEM 100**

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

**(ITEM 153)** Chapter 7 Special Conditions

Section: 700.12(C)

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 101Chapter 5 Special OccupanciesARTICLE 517 Health Care Facilities

**517.30 Sources of Power.**

…

**(C)** **Location of Essential Electrical System Components.**

Essential electrical system components shall be located to minimize interruptions caused by natural forces common to the area (e.g., storms, floods, earthquakes, or hazards created by adjoining structures or activities). [99.6.2.4.1] *[OSHPD 1~~,~~ & 4 ~~& 5~~] Refer to California Building Code, Section 1617A.1.40.*

**(1) Services …**

**(2) Feeders …**

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 102Chapter 5 Special OccupanciesARTICLE 517 Health Care Facilities

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

…

**(E) Receptacle *[OSHPD 1, 2, 3, 4 & 5] and Switch* Identification.** The cover plates for the electrical receptacles *[For OSHPD 1, 2, 3, 4 & 5] and light switches ~~[For OSHPD 1, 2, 3, 4 & 5]~~ or the electrical receptacles and light switches* supplied from the life safety and critical branches shall have a distinctive color or marking so as to be readily identifiable. [99:6.7.2.3.5(B)]

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 103Chapter 5 Special OccupanciesARTICLE 517 Health Care Facilities

**517.32 Branches Requiring Automatic Connection.**

**(A) Life Safety and Critical Branch Used in a Type 1 EES.**

Those functions of patient care depending on lighting or appliances that are connected to the essential electrical system shall be divided into the life safety branch and the critical branch, as described in 517.33 and 517.34.

*[OSHPD 1, 2, 3, 4 & 5] The life safety and critical branches shall be installed and connected to the alternate power source specified in 517.30(A) and (B) so that all functions specified herein for the life safety and critical branches are automatically restored to operation within 10 seconds after interruption of the normal source.*

…

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 104Chapter 5 Special OccupanciesARTICLE 517 Health Care Facilities

**517.34 Critical Branch.**

**(A) Task Illumination, Fixed Equipment, and Selected Receptacles.** The critical branch shall supply power for task illumination, fixed equipment, select receptacles, and select power circuits serving the following spaces and functions related to patient care:

…

(4) Nurse call systems

*[OSHPD 1, 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.*

…

(7) Task illumination, select receptacles, and select power circuits for the following areas:

a. Category 1 (critical care) or 2 (general care) spaces with at least one duplex receptacle per patient bed location, and task illumination as required by the governing body of the health care facility.

…

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

*j. Food preparation areas, central supply, and utility rooms*

*k. Electrical and mechanical rooms*

*l. [OSHPD 1] Imaging room containing imaging equipment approved by Licensing Agency for diagnostic services of emergency/trauma patients found in California Building Code Section 1705A.13.3.1 7. Imaging equipment shall be connected to critical branch or equipment branch.*

…

*(~~10~~11)* *[OSHPD 1, 2, 3, & 4 & 5] The following equipment:*

*a. Electric clocks required by California Building Code, where direct wired.*

…

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 105Chapter 5 Special OccupanciesARTICLE 517 Health Care Facilities

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

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

*~~(10) [OSHPD 1, 2, 3, 4 & 5]~~* *~~Where provided, UPS~~* *~~systems serving telephone, data,~~ ~~technology and telecommunications equipment rooms and closets.~~*

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 106Chapter 5 Special OccupanciesARTICLE 517 Health Care Facilities

**517.44 Connection to Equipment Branch.** The equipment branch shall be installed and connected to the alternate power source such that equipment described in 517.35(A)(6) is automatically restored to operation at appropriate time-lag intervals following the energizing of the life safety and critical branches. [99:6.7.5.1.4.2(A)]

The equipment branch arrangement shall also provide for the additional connection of equipment listed in 517.44(B).

Exception: For essential electrical systems under 150 kVA, deletion of the time-lag intervals feature for delayed automatic connection to the equipment branch shall be permitted.

***517.44.1 [OSHPD 2, 4 & 5] Connection to Equipment Branch.*** *The equipment branch shall be installed and connected to the alternate power source such that equipment described in 517.44(A) is automatically restored to operation at appropriate time-lag intervals following the energizing of the life safety. [99:6.7.5.1.4.2(A)]*

*The equipment branch arrangement shall also provide for the additional connection of equipment listed in 517.44(B).*

*Exception: For essential electrical systems under 150 kVA, deletion of the time-lag intervals feature for delayed automatic connection to the equipment branch shall be permitted.*

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 107Chapter 5 Special OccupanciesARTICLE 517 Health Care Facilities

**517.44 Connection to Equipment Branch …**

**(B) Delayed Automatic or Manual Connection to the Equipment Branch …**

(3) Optional Connections to the Equipment Branch. Additional illumination, receptacles, and equipment shall be permitted to be connected only to the critical branch.

*(3.1) [OSHPD 2, 4 & 5] Optional Connections to the Equipment Branch. Additional illumination, receptacles, and equipment shall be permitted to be connected only to the equipment branch*.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 108Chapter 5 Special OccupanciesARTICLE 517 Health Care Facilities

**517.80 Patient Care Spaces.** Equivalent insulation and isolation to that required for the electrical distribution systems in patient care areas shall be provided for communications, signaling systems, data system circuits, fire alarm systems, and systems less than 120 volts, nominal.

Class 2 and Class 3 signaling and communications systems, *[OSHPD 1, 2, 3, 4 & 5]* *Class 2 circuits that transmit power and data to a power device,* and power-limited fire alarm systems shall not be required to comply with the grounding requirements of 517.13, to comply with the mechanical protection requirements of 517.31(C)⁠(3)⁠(5), or to be enclosed in raceways, unless otherwise specified by Chapter 7 or 8.

Secondary circuits of transformer-powered communications or signaling systems shall not be required to be enclosed in raceways unless otherwise specified by Chapters 7 or 8. [99:6.7.2.3.7]

*[OSHPD 1, 2 , 3, 4 & 5] See ANSI/NEMA C137.3-2017, American National Standard for Lighting Systems — Minimum Requirements for Installation of Energy Efficient Power over Ethernet (PoE) Lighting Systems, for information on installation of cables for PoE lighting systems.*

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 109Chapter 5 Special OccupanciesARTICLE 517 Health Care Facilities

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

***(A) General.***

*(1) Nurse call devices shall be installed in the locations shown ~~required~~ in Table 1224.4.6.5 and as described in Sections 1224, 1225, 1226, 1227, and 1228 of the California Building Code. One device shall be permitted to accommodate any combination of patient station, staff emergency, and code call, provided the individual functions and requirements listed below are met.*

…

***(C) Bath Stations.*** *Bath stations shall meet the following requirements:*

…

*(4) At toilets, the call station shall be located to the side, within 12 inches (304.8 mm) of the front of the toilet bowl and shall maintain a clearance of 12 inches (304.8 mm) above the horizontal grab bar ~~between 3 and 4 feet (914 mm to 1219 mm) above the floor~~.*

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 110Chapter 5 Special OccupanciesARTICLE 517 Health Care Facilities

***517.124 [OSHPD 1, 4 & 5] Technology and Telecommunications***

***Rooms.*** *Where technology or telecommunications rooms are provided in accordance with Section 1224.5 of the California Building Code, the following requirements shall apply:*

***(A) General.*** *Electrical equipment, raceways, and cables that ~~is~~ are not directly related to the support of the room shall not be installed in or pass through the room. Non-lighting circuits serving each room shall be dedicated to that room.*

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 111Chapter 5 Special OccupanciesARTICLE 518 Assembly Occupancies

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 112Chapter 5 Special OccupanciesARTICLE 520 Theaters, Audience Areas of Motion Picture and Television Studios, Performance Areas, and Similar Locations

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 113Chapter 5 Special OccupanciesARTICLE 522 Control Systems for Permanent Amusement Attractions

Article is not adopted for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 114Chapter 5 Special OccupanciesARTICLE 525 Carnivals, Circuses, Fairs, and Similar Events

Article is not adopted for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 115Chapter 5 Special OccupanciesARTICLE 530 Motion Picture and Television Studios and Similar Locations

Article is not adopted for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 116Chapter 5 Special OccupanciesARTICLE 540 Motion Picture Projection Rooms

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 117Chapter 5 Special OccupanciesARTICLE 545 Manufactured Buildings and Relocatable Structures

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 118Chapter 5 Special OccupanciesARTICLE 547 Agricultural Buildings

Article is not adopted for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 119Chapter 5 Special OccupanciesARTICLE 550 Mobile Homes, Manufactured Homes, and Mobile Home Parks

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 120Chapter 5 Special OccupanciesARTICLE 551 Recreational Vehicles and Recreational Vehicle Parks

Article is not adopted for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 121Chapter 5 Special OccupanciesARTICLE 552 Park Trailers

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 122Chapter 5 Special OccupanciesARTICLE 555 Marinas, Boatyards, Floating Buildings, and Commercial and Noncommercial Docking Facilities

Article is not adopted for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 123Chapter 5 Special OccupanciesARTICLE 590 Temporary Installations

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 124Chapter 6 Special EquipmentARTICLE 600 Electric Signs and Outline Lighting

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 125Chapter 6 Special EquipmentARTICLE 604 - Manufactured Wiring Systems

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 126Chapter 6 Special EquipmentARTICLE 605 Office Furnishings

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 127Chapter 6 Special EquipmentARTICLE 610 Cranes and Hoists

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 128Chapter 6 Special EquipmentARTICLE 620 Elevators, Dumbwaiters, Escalators, Moving Walks, Platform Lifts, and Stairway Chairlifts

Adopt entire 2020 National Electric Code (NEC) Article for OSHPD 1R, 2, 3, 4 & 5. Adopt entire 2020 National Electric Code (NEC) Article and carry forward existing amendment of the 2019 California Electrical Code (CEC) for OSHPD 1.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 129Chapter 6 Special EquipmentARTICLE 625 Electric Vehicle Power Transfer System

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 130Chapter 6 Special EquipmentARTICLE 626 Electrified Truck Parking Spaces

Article is not adopted for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 131Chapter 6 Special EquipmentARTICLE 630 Electric Welders

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 132Chapter 6 Special EquipmentARTICLE 640 Audio Signal Processing, Amplification, and Reproduction Equipment

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 133Chapter 6 Special EquipmentARTICLE 645 Information Technology Equipment

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 134Chapter 6 Special EquipmentARTICLE 646 Modular Data Centers

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 135Chapter 6 Special EquipmentARTICLE 647 Sensitive Electronic Equipment

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 136Chapter 6 Special EquipmentARTICLE 650 Pipe Organs

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 137Chapter 6 Special EquipmentARTICLE 660 X-Ray Equipment

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 138Chapter 6 Special EquipmentARTICLE 665 Induction and Dielectric Heating Equipment

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 139Chapter 6 Special EquipmentARTICLE 668 Electrolytic Cells

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 140Chapter 6 Special EquipmentARTICLE 669 Electroplating

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 141Chapter 6 Special EquipmentARTICLE 670 Industrial Machinery

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 142Chapter 6 Special EquipmentARTICLE 675 Electrically Driven or Controlled Irrigation Machines

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 143Chapter 6 Special EquipmentARTICLE 680 Swimming Pools, Fountains, and Similar Installations

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 144Chapter 6 Special EquipmentARTICLE 682 Natural and Artificially Made Bodies of Water

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 145Chapter 6 Special EquipmentARTICLE 685 Integrated Electrical Systems

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 146Chapter 6 Special EquipmentARTICLE 690 Solar Photovoltaic (PV) Systems

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 147Chapter 6 Special EquipmentARTICLE 691 Large-Scale Photovoltaic (PV) Electric Supply Stations

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 148Chapter 6 Special EquipmentARTICLE 692 Fuel Cell Systems

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 149Chapter 6 Special EquipmentARTICLE 694 Wind Electric Systems

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 150Chapter 6 Special EquipmentARTICLE 695 Fire Pumps

Adopt entire 2020 National Electric Code (NEC) Article and carry forward existing amendments of the 2019 California Electrical Code (CEC) for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 151Chapter 7 Special ConditionsARTICLE 700 Emergency Systems

Adopt entire 2020 National Electric Code (NEC) Articles, carry forward existing amendments of the 2019 CEC for OSHPD 1, 1R, 2, 3, 4 & 5, and make the following amendments in Items 151 through 154:

**700.3 Tests and Maintenance.**

…

**(B) Tested Periodically.** Systems shall be tested periodically on a schedule approved by the authority having jurisdiction to ensure the systems are maintained in proper operating condition. *[OSHPD 1, ~~1R, and,~~ 2 & 5] The authority having jurisdiction is* *Department of Public Health, Licensing and Certification.*

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 152Chapter 7 Special ConditionsARTICLE 700 Emergency Systems

**700.5 Transfer Equipment.**

…

**(C) Automatic Transfer Switches.** Automatic transfer switches shall be electrically operated and mechanically held. Automatic transfer switches shall not be permitted to be reconditioned.*~~[OSHPD 1, 1R, 2, 3, 4 & 5] Automatic transfer switches rated above 1000 VAC shall be listed for emergency system use or approved by an alternative testing and approval program acceptable to the authority having jurisdiction.~~*

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 153Chapter 7 Special ConditionsARTICLE 700 Emergency Systems

**700.12 General Requirements …**

**(C) Storage Battery.** Storage batteries shall be of suitable rating and capacity to supply and maintain the total load for a minimum period of 11∕ 2 hours, without the voltage applied to the load falling below 871∕ 2 percent of normal. Automotive-type batteries shall not be used.

 An automatic battery charging means shall be provided.

*Exception: [OSHPD 1, 2, 3, 4 & 5] Battery system used as an alternate power source for Type 1 essential electrical system shall be of suitable rating and capacity to supply and maintain the full-demand load for the time durations specified in 700.12(D)(2)(a).*

**ASSOCIATED ARTICLES TO ITEM 153**

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

**(ITEM 100)** Chapter 5 Special Occupancies

Section: 517.30(B)(1.1)

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 154Chapter 7 Special ConditionsARTICLE 700 Emergency Systems

**700.12 General Requirements …**

**(D) Generator Set.**

…

**(2) Internal Combustion Engines as Prime Movers.**

 (a) On-Site Fuel Supply. 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’ operation of the system.

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

*Exception No.1: [SFM, OSHPD 1, 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-premise fuel supply shall be sufficient for no less than 72 hours full-demand operations.*

*Exception No. 2: [SFM, OSHPD 1, 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, 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.*

*[OSHPD 1, 2, & 5]: For facilities subject to Centers for Medicare and Medicaid Services (CMS) regulations, see 42 CFR 482.15(e)(3) and 42 CFR 483.73(e)(3) for emergency generator fuel requirements.*

…

**(G) 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)~~(D)(2)(a).*

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 155Chapter 7 Special ConditionsARTICLE 701 Legally Required Standby Systems

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 156Chapter 7 Special ConditionsARTICLE 702 Optional Standby Systems

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 157Chapter 7 Special ConditionsARTICLE 705 Interconnected Electric Power Production Sources

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 158Chapter 7 Special ConditionsARTICLE 706 Energy Storage Systems

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 159Chapter 7 Special ConditionsARTICLE 708 Critical Operations Power Systems (COPS)

Adopt entire 2020 National Electric Code (NEC) Article and carry forward existing amendments of the 2019 California Electrical Code (CEC) for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 160Chapter 7 Special ConditionsARTICLE 710 Stand-Alone Systems

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 161Chapter 7 Special ConditionsARTICLE 712 Direct Current Microgrids

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 162Chapter 7 Special ConditionsARTICLE 720 Circuits and Equipment Operating at Less Than 50 Volts

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 163Chapter 7 Special ConditionsARTICLE 725 Class 1, Class 2, And Class 3 Remote-Control, Signaling, and Power-Limited Circuits

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 164Chapter 7 Special ConditionsARTICLE 727 Instrumentation Tray Cable: Type ITC

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 165Chapter 7 Special ConditionsARTICLE 728 Fire-Resistive Cable Systems

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 166Chapter 7 Special ConditionsARTICLE 750 Energy Management Systems

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 167Chapter 7 Special ConditionsARTICLE 760 Fire Alarm Systems

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 168Chapter 7 Special ConditionsARTICLE 770 Optical Fiber Cables

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 169Chapter 8 Communications SystemsARTICLE 800 General Requirements for Communications Systems

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 170Chapter 8 Communications SystemsARTICLE 805 Communications Circuits

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 171Chapter 8 Communications SystemsARTICLE 810 Radio and Television Equipment

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 172Chapter 8 Communications SystemsARTICLE 820 Community Antenna Television and Radio Distribution Systems

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 173Chapter 8 Communications SystemsARTICLE 830 Network-Powered Broadband Communications Systems

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 174Chapter 8 Communications SystemsARTICLE 840 Premises-Powered Broadband Communications Systems

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 175Chapter 9 Tables

Adopt entire 2020 National Electric Code (NEC) Article without amendments for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850

# Item 176Annexes A, B, C, D, E, F, G, H, I and J

2020 National Electric Code (NEC) Annexes A, B, C, D, E, F, G, H, I and J are not adopted for OSHPD 1, 1R, 2, 3, 4 & 5.

**Notation:**

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

Reference: Health and Safety Code, Section 129850