# FINAL EXPRESS TERMS FOR PROPOSED BUILDING STANDARDS OF THE OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT REGARDING 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* Repealed model code language appears ~~upright and in strikeout~~
* Repealed California amendments appear in *~~italic and strikeout~~*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 1 CALIFORNIA 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 2 ARTICLE 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 3 Chapter 1 General ARTICLE 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 5 Chapter 1 General ARTICLE 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 6 Chapter 1 General ARTICLE 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 7 Chapter 2 Wiring and Protection ARTICLE 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 8 Chapter 2 Wiring and Protection ARTICLE 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 9 Chapter 2 Wiring and Protection ARTICLE 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 10 Chapter 2 Wiring and Protection ARTICLE 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 11 Chapter 2 Wiring and Protection ARTICLE 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 12 Chapter 2 Wiring and Protection ARTICLE 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 13 Chapter 2 Wiring and Protection ARTICLE 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 14 Chapter 2 Wiring and Protection ARTICLE 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 15 Chapter 2 Wiring and Protection ARTICLE 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 16 Chapter 3 Wiring Methods and Materials ARTICLE 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 17 Chapter 3 Wiring Methods and Materials ARTICLE 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 18 Chapter 3 Wiring Methods and Materials ARTICLE 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 19 Chapter 3 Wiring Methods and Materials ARTICLE 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 20 Chapter 3 Wiring Methods and Materials ARTICLE 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 21 Chapter 3 Wiring Methods and Materials ARTICLE 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 22 Chapter 3 Wiring Methods and Materials ARTICLE 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 23 Chapter 3 Wiring Methods and Materials ARTICLE 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 24 Chapter 3 Wiring Methods and Materials ARTICLE 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 25 Chapter 3 Wiring Methods and Materials ARTICLE 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 26 Chapter 3 Wiring Methods and Materials ARTICLE 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 27 Chapter 3 Wiring Methods and Materials ARTICLE 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 28 Chapter 3 Wiring Methods and Materials ARTICLE 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 29 Chapter 3 Wiring Methods and Materials ARTICLE 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 30 Chapter 3 Wiring Methods and Materials ARTICLE 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 31 Chapter 3 Wiring Methods and Materials ARTICLE 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 32 Chapter 3 Wiring Methods and Materials ARTICLE 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 33 Chapter 3 Wiring Methods and Materials ARTICLE 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 34 Chapter 3 Wiring Methods and Materials ARTICLE 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 35 Chapter 3 Wiring Methods and Materials ARTICLE 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 36 Chapter 3 Wiring Methods and Materials ARTICLE 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 37 Chapter 3 Wiring Methods and Materials ARTICLE 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 38 Chapter 3 Wiring Methods and Materials ARTICLE 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 39 Chapter 3 Wiring Methods and Materials ARTICLE 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 40 Chapter 3 Wiring Methods and Materials ARTICLE 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 41 Chapter 3 Wiring Methods and Materials ARTICLE 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 42 Chapter 3 Wiring Methods and Materials ARTICLE 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 43 Chapter 3 Wiring Methods and Materials ARTICLE 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 44 Chapter 3 Wiring Methods and Materials ARTICLE 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 45 Chapter 3 Wiring Methods and Materials ARTICLE 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 46 Chapter 3 Wiring Methods and Materials ARTICLE 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 47 Chapter 3 Wiring Methods and Materials ARTICLE 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 48 Chapter 3 Wiring Methods and Materials ARTICLE 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 49 Chapter 3 Wiring Methods and Materials ARTICLE 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 50 Chapter 3 Wiring Methods and Materials ARTICLE 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 51 Chapter 3 Wiring Methods and Materials ARTICLE 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 52 Chapter 3 Wiring Methods and Materials ARTICLE 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 53 Chapter 3 Wiring Methods and Materials ARTICLE 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 54 Chapter 3 Wiring Methods and Materials ARTICLE 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 55 Chapter 3 Wiring Methods and Materials ARTICLE 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 56 Chapter 3 Wiring Methods and Materials ARTICLE 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 57 Chapter 3 Wiring Methods and Materials ARTICLE 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 58 Chapter 3 Wiring Methods and Materials ARTICLE 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 59 Chapter 3 Wiring Methods and Materials ARTICLE 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 60 Chapter 3 Wiring Methods and Materials ARTICLE 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 61 Chapter 3 Wiring Methods and Materials ARTICLE 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 62 Chapter 3 Wiring Methods and Materials ARTICLE 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 63 Chapter 4 Equipment for General Use ARTICLE 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 64 Chapter 4 Equipment for General Use ARTICLE 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 65 Chapter 4 Equipment for General Use ARTICLE 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 66 Chapter 4 Equipment for General Use ARTICLE 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 67 Chapter 4 Equipment for General Use ARTICLE 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 68 Chapter 4 Equipment for General Use ARTICLE 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 69 Chapter 4 Equipment for General Use ARTICLE 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 70 Chapter 4 Equipment for General Use ARTICLE 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 71 Chapter 4 Equipment for General Use ARTICLE 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 72 Chapter 4 Equipment for General Use ARTICLE 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 73 Chapter 4 Equipment for General Use ARTICLE 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 74 Chapter 4 Equipment for General Use ARTICLE 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 75 Chapter 4 Equipment for General Use ARTICLE 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 76 Chapter 4 Equipment for General Use ARTICLE 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 77 Chapter 4 Equipment for General Use ARTICLE 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 78 Chapter 4 Equipment for General Use ARTICLE 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 79 Chapter 4 Equipment for General Use ARTICLE 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 80 Chapter 4 Equipment for General Use ARTICLE 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 81 Chapter 4 Equipment for General Use ARTICLE 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 82 Chapter 4 Equipment for General Use ARTICLE 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 83 Chapter 4 Equipment for General Use ARTICLE 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 84 Chapter 4 Equipment for General Use ARTICLE 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 85 Chapter 5 Special Occupancies ARTICLE 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 86 Chapter 5 Special Occupancies ARTICLE 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 87 Chapter 5 Special Occupancies ARTICLE 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 88 Chapter 5 Special Occupancies ARTICLE 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 89 Chapter 5 Special Occupancies ARTICLE 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 90 Chapter 5 Special Occupancies ARTICLE 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 91 Chapter 5 Special Occupancies ARTICLE 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 92 Chapter 5 Special Occupancies ARTICLE 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 93 Chapter 5 Special Occupancies ARTICLE 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 94 Chapter 5 Special Occupancies ARTICLE 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 95 Chapter 5 Special Occupancies ARTICLE 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 96 Chapter 5 Special Occupancies ARTICLE 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 97 Chapter 5 Special Occupancies ARTICLE 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 98 Chapter 5 Special Occupancies ARTICLE 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 99 Chapter 5 Special Occupancies ARTICLE 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 100 Chapter 5 Special Occupancies ARTICLE 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 101 Chapter 5 Special Occupancies ARTICLE 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 102 Chapter 5 Special Occupancies ARTICLE 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 103 Chapter 5 Special Occupancies ARTICLE 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 104 Chapter 5 Special Occupancies ARTICLE 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 105 Chapter 5 Special Occupancies ARTICLE 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 106 Chapter 5 Special Occupancies ARTICLE 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 107 Chapter 5 Special Occupancies ARTICLE 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 108 Chapter 5 Special Occupancies ARTICLE 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 109 Chapter 5 Special Occupancies ARTICLE 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 110 Chapter 5 Special Occupancies ARTICLE 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 111 Chapter 5 Special Occupancies ARTICLE 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 112 Chapter 5 Special Occupancies ARTICLE 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 113 Chapter 5 Special Occupancies ARTICLE 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 114 Chapter 5 Special Occupancies ARTICLE 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 115 Chapter 5 Special Occupancies ARTICLE 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 116 Chapter 5 Special Occupancies ARTICLE 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 117 Chapter 5 Special Occupancies ARTICLE 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 118 Chapter 5 Special Occupancies ARTICLE 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 119 Chapter 5 Special Occupancies ARTICLE 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 120 Chapter 5 Special Occupancies ARTICLE 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 121 Chapter 5 Special Occupancies ARTICLE 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 122 Chapter 5 Special Occupancies ARTICLE 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 123 Chapter 5 Special Occupancies ARTICLE 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 124 Chapter 6 Special Equipment ARTICLE 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 125 Chapter 6 Special Equipment ARTICLE 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 126 Chapter 6 Special Equipment ARTICLE 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 127 Chapter 6 Special Equipment ARTICLE 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 128 Chapter 6 Special Equipment ARTICLE 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 129 Chapter 6 Special Equipment ARTICLE 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 130 Chapter 6 Special Equipment ARTICLE 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 131 Chapter 6 Special Equipment ARTICLE 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 132 Chapter 6 Special Equipment ARTICLE 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 133 Chapter 6 Special Equipment ARTICLE 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 134 Chapter 6 Special Equipment ARTICLE 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 135 Chapter 6 Special Equipment ARTICLE 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 136 Chapter 6 Special Equipment ARTICLE 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 137 Chapter 6 Special Equipment ARTICLE 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 138 Chapter 6 Special Equipment ARTICLE 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 139 Chapter 6 Special Equipment ARTICLE 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 140 Chapter 6 Special Equipment ARTICLE 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 141 Chapter 6 Special Equipment ARTICLE 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 142 Chapter 6 Special Equipment ARTICLE 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 143 Chapter 6 Special Equipment ARTICLE 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 144 Chapter 6 Special Equipment ARTICLE 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 145 Chapter 6 Special Equipment ARTICLE 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 146 Chapter 6 Special Equipment ARTICLE 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 147 Chapter 6 Special Equipment ARTICLE 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 148 Chapter 6 Special Equipment ARTICLE 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 149 Chapter 6 Special Equipment ARTICLE 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 150 Chapter 6 Special Equipment ARTICLE 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 151 Chapter 7 Special Conditions ARTICLE 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 152 Chapter 7 Special Conditions ARTICLE 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 153 Chapter 7 Special Conditions ARTICLE 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 154 Chapter 7 Special Conditions ARTICLE 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 155 Chapter 7 Special Conditions ARTICLE 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 156 Chapter 7 Special Conditions ARTICLE 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 157 Chapter 7 Special Conditions ARTICLE 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 158 Chapter 7 Special Conditions ARTICLE 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 159 Chapter 7 Special Conditions ARTICLE 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 160 Chapter 7 Special Conditions ARTICLE 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 161 Chapter 7 Special Conditions ARTICLE 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 162 Chapter 7 Special Conditions ARTICLE 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 163 Chapter 7 Special Conditions ARTICLE 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 164 Chapter 7 Special Conditions ARTICLE 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 165 Chapter 7 Special Conditions ARTICLE 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 166 Chapter 7 Special Conditions ARTICLE 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 167 Chapter 7 Special Conditions ARTICLE 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 168 Chapter 7 Special Conditions ARTICLE 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 169 Chapter 8 Communications Systems ARTICLE 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 170 Chapter 8 Communications Systems ARTICLE 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 171 Chapter 8 Communications Systems ARTICLE 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 172 Chapter 8 Communications Systems ARTICLE 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 173 Chapter 8 Communications Systems ARTICLE 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 174 Chapter 8 Communications Systems ARTICLE 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 175 Chapter 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 176 Annexes 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