

**INITIAL STATEMENT OF REASONS  
FOR PROPOSED BUILDING STANDARDS  
OF THE OFFICE OF STATEWIDE HOSPITAL PLANNING AND DEVELOPMENT  
REGARDING THE 2025 CALIFORNIA ELECTRICAL CODE  
CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 3  
(OSHPD 01/23)**

The Administrative Procedure Act (APA) requires that an Initial Statement of Reasons be available to the public upon request when rulemaking action is being undertaken. The following information required by the APA pertains to this particular rulemaking action:

**STATEMENT OF SPECIFIC PURPOSE, PROBLEM, RATIONALE and BENEFITS**

Government Code Section 11346.2(b)(1) requires a statement of specific purpose of each adoption, amendment, or repeal and the problem the agency intends to address and the rationale for the determination by the agency that each adoption, amendment, or repeal is reasonably necessary to carry out the purpose and address the problem for which it is proposed. The statement shall enumerate the benefits anticipated from the regulatory action, including the benefits or goals provided in the authorizing statute.

**GENERAL INITIAL STATEMENT OF REASONS**

The California Department of Health Care Access and Information (HCAI), Office of Statewide Hospital Planning and Development (OSHPD), proposes to repeal the 2020 National Electrical Code, adopt the 2023 National Electrical Code, and carry forward existing amendments from the 2022 California Electrical Code, Part 3 of Title 24 California Code of Regulations. Specific repeal, adoption and amendments are listed below.

OSHPD was recast and transitioned to the Department of Health Care Access and Information (HCAI) in 2021. The Divisions within HCAI were changed to Offices and OSHPD was able to retain the acronym which will not change the Title 24 banners.

**ITEM 1**

***CALIFORNIA ARTICLE 89  
GENERAL CODE PROVISIONS***

Carry forward existing amendment which is Article 89 from the 2022 California Electrical Code for OSHPD 1, 1R, 2, 3, 4, 5 & 6 and make the following amendments:

***89.101.3.2, 89.110, 89.110.1, 89.110.2, 89.110.4, and 89.110.5***

HCAI proposes to revise the word “Health” to “Hospital” as the Enforcing Agency throughout this article to align with the Office name change to Office of Statewide Hospital Planning and Development.

***89.110.6 OSHPD 6***

HCAI proposes to add this new section to align with the new OSHPD banner and application “Section 1229 [OSHPD 6] Chemical Dependency Recovery Hospital”. This new section was added to the California Building Code during the 2022 Intervening Code Cycle. This amendment provides for consistency throughout all Parts of Title 24.

**CAC Recommendation:**

Approve

**Agency Response:**

Accept

**ITEM 2**

**ARTICLE 90 Introduction**

Adopt entire 2023 National Electrical Code Article 90 without amendments for OSHPD 1, 1R, 2, 3, 4, 5 & 6.

**CAC Recommendation:**

Approve

**Agency Response:**

Accept

**ITEM 3**

**Chapter 1 General**

**ARTICLE 100 Definitions**

Adopt entire 2023 National Electrical Code Article 100 for OSHPD 1, 1R, 2, 3, 4, 5 & 6, carry forward amendments from the 2022 California Electric Code for OSHPD 1, 2, 3, 4, & 5. Relocate existing OSHPD definitions in Article 517 to Article 100 as follows:

***Life-Saving Equipment.*** Add the [OSHPD 2] banner. No change to the definition text.

***Oxygen-Generating Devices*** Add the [OSHPD 2] banner. No change to the definition text

Relocate OSHPD amendments to definitions from 517.2 to Article 100.

**Patient Care Space Category, Category 1 Space (Category 1)** OSHPD banner and amendment moved to Article 100, with no change to text.

**Category 2 Space (Category 2)** OSHPD banner and amendment moved to Article 100, with no change to text.

The relocation of definitions and amendments to definitions from Article 517 to Article 100 are necessary because all Article 517 definitions have been relocated to Article 100 in the 2023 National Electrical Code. This is an NFPA format change.

Associated Article: 517.2 Definitions.

**ARTICLE 110 General Requirements for Electrical Installations**

Adopt entire 2023 National Electrical Code Article 110 for OSHPD 1, 1R, 2, 3, 4, 5 & 6, carry forward existing amendments from the 2022 California Electrical Code for OSHPD 1, 2, 3, 4 & 5.

**CAC Recommendation:**

Approve

**Agency Response:**

Accept

## **ITEM 4**

### **Chapter 2 Wiring and Protection**

#### **ARTICLE 200 Use and Identification of Grounded Conductors**

#### **ARTICLE 210 Branch Circuits Not Over 1000 Volts ac, 1500 Volts dc, Nominal**

#### **ARTICLE 215 Feeders**

Adopt entire 2023 National Electrical Code Articles 200, 210 and 215 without amendments for OSHPD 1, 1R, 2, 3, 4, 5 & 6.

#### **ARTICLE 220 Branch-Circuit, Feeder, And Service Load Calculations**

**220.1, 220.40, 220.42, Part VI, 220.110, Table 220.110(1) and Table 220.110(2)**, Repeal all existing HCAI amendments in Article 220. Adopt entire 2023 National Electrical Code Article 220 without amendments for OSHPD 1, 1R, 2, 3, 4, 5 & 6. Note: all previous HCAI amendments in this Article were added to adopt 2023 National Electrical Code language in the 2022 CEC Intervening Code cycle updates to allow enhanced demand factors for receptacles supplied by general-purpose branch circuits in Category 1, 2, 3 and 4 patient care spaces. Since HCAI is adopting the entire 2023 National Electrical Code, which includes the new demand factors, these amendments are no longer necessary and are repealed to avoid redundancy.

#### **ARTICLE 225 Outside Branch Circuits and Feeders**

#### **ARTICLE 230 Services**

#### **ARTICLE 235 Branch Circuits, Feeders, and Services Over 1000 Volts ac, 1500 Volts dc, Nominal**

#### **ARTICLE 240 Overcurrent Protection**

#### **ARTICLE 242 Overvoltage Protection**

#### **ARTICLE 245 Overcurrent Protection for Systems Rated Over 1000 Volts ac, 1500 Volts dc**

#### **ARTICLE 250 Grounding and Bonding**

Adopt entire 2023 National Electrical Code Articles 225, 230, 235, 240, 242, 245 & 250 without amendments for OSHPD 1, 1R, 2, 3, 4, 5 & 6.

#### **CAC Recommendation:**

Approve

#### **Agency Response:**

Accept

## **ITEM 5**

### **Chapter 3 Wiring Methods and Materials**

#### **ARTICLE 300 General Requirements for Wiring Methods and Materials**

#### **ARTICLE 305 General Requirements for Wiring Methods and Materials for Systems Rated Over 1000 Volts ac, 1500 Volts dc, Nominal**

#### **ARTICLE 310 Conductors for General Wiring**

#### **ARTICLE 312 Cabinets, Cutout Boxes, and Meter Socket Enclosures**

#### **ARTICLE 314 Outlet, Device, Pull, and Junction Boxes; Conduit Bodies; Fittings; and Handhole Enclosures**

#### **ARTICLE 315 Medium Voltage Conductors, Cable Joints, and Cable Terminations**

**ARTICLE 320 Armored Cable: Type AC**  
**ARTICLE 322 Flat Cable Assemblies: Type FC**  
**ARTICLE 324 Flat Conductor Cable: Type FCC**  
**ARTICLE 326 Integrated Gas Spacer Cable: Type IGS**  
**ARTICLE 330 Metal-Clad Cable: Type MC**  
**ARTICLE 332 Mineral-Insulated, Metal-Sheathed Cable: Type MI**  
**ARTICLE 334 Nonmetallic-Sheathed Cable: Types NM, and NMC**  
**ARTICLE 335 Instrumentation Tray Cable: Type ITC**  
**ARTICLE 336 Power and Control Tray Cable: Type TC**  
**ARTICLE 337 Type P Cable**  
**ARTICLE 338 Service-Entrance Cable: Types SE and USE**  
**ARTICLE 340 Underground Feeder and Branch-Circuit Cable: Type UF**  
**ARTICLE 342 Intermediate Metal Conduit (IMC)**  
**ARTICLE 344 Rigid Metal Conduit (RMC)**  
**ARTICLE 348 Flexible Metal Conduit (FMC)**  
**ARTICLE 350 Liquidtight Flexible Metal Conduit (LFMC)**  
**ARTICLE 352 Rigid Polyvinyl Chloride Conduit (PVC)**  
**ARTICLE 353 High Density Polyethylene Conduit (HDPE Conduit)**  
**ARTICLE 354 Nonmetallic Underground Conduit with Conductors (NUCC)**  
**ARTICLE 355 Reinforced Thermosetting Resin Conduit (RTRC)**  
**ARTICLE 356 Liquidtight Flexible Nonmetallic Conduit (LFNC)**  
**ARTICLE 358 Electrical Metallic Tubing (EMT)**  
**ARTICLE 360 Flexible Metallic Tubing (FMT)**  
**ARTICLE 362 Electrical Nonmetallic Tubing (ENT)**  
**ARTICLE 366 Auxiliary Gutters**  
**ARTICLE 368 Busways**  
**ARTICLE 369 Insulated Bus Pipe (IBP)/Tubular Covered Conductors (TCC) Systems**  
**ARTICLE 370 Cablebus**  
**ARTICLE 371 Flexible Bus Systems**  
**ARTICLE 372 Cellular Concrete Floor Raceways**  
**ARTICLE 374 Cellular Metal Floor Raceways**  
**ARTICLE 376 Metal Wireways**  
**ARTICLE 378 Nonmetallic Wireways**  
**ARTICLE 380 Multioutlet Assembly**  
**ARTICLE 382 Nonmetallic Extensions**  
**ARTICLE 384 Strut-Type Channel Raceway**  
**ARTICLE 386 Surface Metal Raceways**  
**ARTICLE 388 Surface Nonmetallic Raceways**  
**ARTICLE 390 Underfloor Raceways**  
**ARTICLE 392 Cable Trays**  
**ARTICLE 393 Low-Voltage Suspended Ceiling Power Distribution Systems**  
**ARTICLE 394 Concealed Knob-And-Tube Wiring**  
**ARTICLE 395 Outdoor Overhead Conductors over 1000 Volts**  
**ARTICLE 396 Messenger-Supported Wiring**  
**ARTICLE 398 Open Wiring on Insulators**

Adopt entire 2023 National Electrical Code Articles 300, 305, 310, 312, 314, 315, 320, 322, 324, 326, 330, 332, 334, 335, 336, 337, 338, 340, 342, 344, 348, 350, 352, 353, 354, 355, 356, 358, 360, 362, 366, 368, 369, 370, 371, 372, 374, 376, 378, 380, 382, 384, 386, 388,

390, 392, 393, 394, 395, 396 and 398 without amendments for OSHPD 1, 1R, 2, 3, 4, 5 & 6.

**CAC Recommendation:**

Approve

**Agency Response:**

Accept

**ITEM 6**

**Chapter 4 Equipment for General Use**

**ARTICLE 400 Flexible Cords and Cables**

**ARTICLE 402 Fixture Wires**

Adopt entire 2023 National Electrical Code Articles 400 and 402 without amendments for OSHPD 1, 1R, 2, 3, 4, 5 & 6.

**ARTICLE 404 Switches**

Adopt entire 2023 National Electrical Code Article 404 for OSHPD 1R, 3 & 6. Adopt entire 2023 National Electrical Code Article 404, carry forward existing amendment from the 2022 California Electrical Code for OSHPD 1, 2, 4 & 5 with the following amendment.

**404.4** Add 6 to the OSHPD Banner for the OSHPD amendment after Section 404.4 (C).

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

Repeal all HCAI amendments in Article 406. Adopt entire 2023 National Electrical Code Article 406 without amendments for OSHPD 1, 1R, 2, 3, 4, 5 & 6.

**406.9 (C)** HCAI proposes to repeal the amendment to Exception No.2 for Section, which states "Exception not adopted". This amendment was required last code cycle to not allow receptacles to be located within 3 feet of shower stall thresholds in bathtubs and shower spaces regardless of the size of the room. This exception is no longer required because model code was revised to state that this exception only applies to Dwelling Units [see 210.52(D)].

**ARTICLE 408 Switchboards, Switchgear, and Panelboards**

**ARTICLE 409 Industrial Control Panels**

**ARTICLE 410 Luminaires, Lampholders, and Lamps**

**ARTICLE 411 Low-Voltage Lighting**

**ARTICLE 422 Appliances**

**ARTICLE 424 Fixed Electric Space-Heating Equipment**

**ARTICLE 425 Fixed Resistance and Electrode Industrial Process Heating Equipment**

**ARTICLE 426 Fixed Outdoor Electric Deicing and Snow-Melting Equipment**

**ARTICLE 427 Fixed Electric Heating Equipment for Pipelines and Vessels**

**ARTICLE 430 Motors, Motor Circuits, and Controllers**

**ARTICLE 440 Air-Conditioning and Refrigerating Equipment**

**ARTICLE 445 Generators**

**ARTICLE 450 Transformers and Transformer Vaults (Including Secondary Ties)**

**ARTICLE 455 Phase Converters**

**ARTICLE 460 Capacitors**

**ARTICLE 470 Resistors and Reactors**

**ARTICLE 480 Stationary Standby Batteries**

**ARTICLE 495 Equipment Over 1000 Volts ac, 1500 Volts dc, Nominal**

Adopt entire 2023 National Electrical Code Articles 408, 409, 410, 411, 422, 424, 425, 426, 427, 430, 440, 445, 450, 455, 460, 470, 480 and 495 without amendments for OSHPD 1, 1R, 2, 3, 4, 5 & 6.

**CAC Recommendation:**

Approve

**Agency Response:**

Accept

**ITEM 7**

**Chapter 5 Special Occupancies**

**ARTICLE 500 Hazardous (Classified) Locations, Classes I, II, and III, Divisions 1 and 2**

**ARTICLE 501 Class I Locations**

**ARTICLE 502 Class II Locations**

**ARTICLE 503 Class III Locations**

**ARTICLE 504 Intrinsically Safe Systems**

**ARTICLE 505 Zone 0, 1, And 2 Locations**

**ARTICLE 506 Zone 20, 21, and 22 Locations for Combustible Dusts or Ignitable Fibers/Flyings**

Adopt entire 2023 National Electrical Code Articles 500, 501, 502, 503, 504, 505 and 506 without amendments for OSHPD 1, 1R, 2, 3, 4, 5 & 6.

**ARTICLE 511 Commercial Garages, Repair and Storage**

**ARTICLE 512 Cannabis Oil Equipment and Cannabis Oil Systems Using Flammable Materials**

**ARTICLE 513 Aircraft Hangars**

**ARTICLE 514 Motor Fuel Dispensing Facilities**

Articles 511, 512, 513 and 514 are not adopted for OSHPD 1, 1R, 2, 3, 4, 5 & 6.

**ARTICLE 515 Bulk Storage Plants**

Adopt entire 2023 National Electrical Code Article 515 without amendments for OSHPD 1, 1R, 2, 3, 4, 5 & 6.

**ARTICLE 516 Spray Application, Dipping, Coating, And Printing Processes Using Flammable or Combustible Materials**

Article 516 is not adopted for OSHPD 1, 1R, 2, 3, 4, 5 & 6.

**CAC Recommendation:**

Approve

**Agency Response:**

Accept

**ITEM 8**

**Chapter 5 Special Occupancies**

**ARTICLE 517 Health Care Facilities**

Adopt entire 2023 National Electrical Code Article 517 for OSHPD 1, 1R, 2, 3, 4, 5 & 6, carry forward existing amendments from the 2022 California Electrical Code for OSHPD 1, 1R, 2, 3, 4, & 5. Relocate definitions in 517.2 to Article 100. Repeal HCAI amendments in Sections 517.10(B)(2), 517.18(B)(2), 517.30(B.1), 517.31(D.1), 517.31(E), 517.42(E), 517.44(B)(3.1), 517.45(G) & 517.80. Renumber section 517.22 to 517.8, and renumber section 517.24 to 517.9. Add sections 517.30(A.1), 517.30(D), 517.30(E), 517.31(H), 517.41(A.1), 517.41(D), 517.41(E), 517.42(G), 517.45(H). Make the following amendments in Sections 517.1(C), 517.4, 517.18 (B)(2), 517.29(A.1), 517.41(B.1), 517.42(E), 517.45(E.1), 517.45(H), 517.63 & 517.123(C)(3).

**517.1 Scope (C).**

HCAI proposes to amend the section to fix existing grammatical errors. The words “and provide” are proposed to be added to replace “or”, and “documentation for” are being added to fix the grammar in the last sentence. No changes to requirements are being proposed.

**517.2 Definitions.**

**Life-Saving Equipment. [OSHPD 2]** HCAI proposes to relocate the OSHPD definition to Article 100 unamended. The relocation coincides with the National Electrical Code format change.

**Microgrid, Health Care (Health Care Microgrid System).** HCAI proposes to repeal the Health Care Microgrid System definition as this has been added to the 2023 NEC and needs to be removed to avoid redundancy.

**Microgrid Control System (MCS).** HCAI proposes to repeal the Microgrid Control System definition as this has been added to the 2023 NEC, and needs to be removed to avoid redundancy. This includes the Informational note for the MCS.

**Oxygen-Generating Devices. [OSHPD 2]** HCAI proposes to relocate the OSHPD definition to Article 100 unamended. The relocation coincides with the National Electrical Code format change.

**Patient Care Space.**

**Category 1 (Critical Care) Space.** HCAI proposes to relocate the OSHPD amendment to this definition to Article 100 unamended. The relocation coincides with the National Electrical Code format change.

**Category 2 (General Care) Space.** HCAI proposes to relocate the OSHPD amendment to this definition to Article 100 unamended. The relocation coincides with the National

Electrical Code format change.

Associated Section: 100.

**517.4 [OSHPD 1, 2, 3, 4 & 5] Electric Power Sources, Feeders and Services.**

HCAI proposes to revise this section to address the implementation of new technologies to incorporate sources other than utilities to power healthcare projects. This section allows utility services, on-site resources, or a combination of both, to feed the entire healthcare facility electrical load. The requirement for all sources other than utility owned equipment, required to meet the entire healthcare facility electrical load to have special seismic certification and to be located to minimize interruptions is also added to this section.

Associated Sections: 517.30(A.1) and 517.41(A.1).

**517.8 (Formerly 517.22) [OSHPD 1, 2, 3, 4 & 5] Artificial Lighting.**

HCAI proposes to relocate/renumber section 517.22 in Part II to 517.8 in Part I of this chapter and proposes to revise the banner to include OSHPD 6 facilities. This change is necessary because the NEC added a new section 517.22 to this Article. This section is needed in Part I because of future changes in 517.10 (i.e. lighting requirements will still need to apply to Skilled Nursing Facilities). OSHPD

Associated Section: 517.22

**517.9 (Formerly 517.24) [OSHPD 1, 1R, 2, 3, 4 & 5] Mobile Medical Facilities.**

HCAI proposes to relocate/renumber section 517.24 in Part II to 517.9 in Part I of this Article. This change is necessary because of future changes in 517.10. (i.e. mobile medical facilities requirements will still need to apply to all OSHPD occupancy types.)

Associated Section: 517.24

**517.10(B)(2) Applicability.**

HCAI proposes to repeal amendments in Section 517.10(B)(2) which states that healthcare related facilities do not need to comply with 517 Part II – Wiring and Protection. The amendment to be removed reads “*Not adopted by [OSHPD 1, 2, 3, 4 & 5].*” The repeal of this HCAI amendment will bring wiring and protection requirements for OSHPD 2 facilities (skilled nursing and intermediate-care facilities) in line with the national standards.

Associated Section: 517.18(B)(2) Exception No 3

**517.18 Category 2 Spaces(B)(2). Exception No. 3**

HCAI proposes to repeal Section 517.18 (B)(2) Exception No. 3 “Hospital grade receptacles shall not be required in patient sleeping areas in nursing homes.” This change is needed because HCAI is removing the “Not adopted by OSHPD amendment in Section 517.10 (B)(2) above. Hospital grade receptacles are still not required in patient sleeping rooms.

**Exception 4 and 5.** The repeal of Exception No. 3 requires the renumbering of exception No. 4 to No. 3 and the renumbering of exception No. 5 to No. 4.

HCAI proposes to add 1R to the banner for exception No. 4 (previously 5) to support the concept that output observation beds can be located in 1R buildings.

HCAI also proposes to relocate exceptions No. 3 and No. 4 to be before the Informational Note to match location in the NEC (ie at the end of all exceptions)

Associated Section: 517.10(B)(2)

**517.22** (Relocated to 517.8) **[OSHPD 1, 2, 3, 4 & 5] Artificial Lighting.**

HCAI proposes to renumber 517.22 Artificial Lighting to 517.8. This amendment is renumbered as the 2023 National Electrical Code added a new Section 517.22 Demand Factors. Renumbering to 517.8 and reassigning to Part I of this chapter avoids the conflict of using the same number of newly added National Electrical Code Section 517.22 and is a more appropriate location for this section.

Associated Section: 517.8

**517.24** (Relocated to 517.9) **[OSHPD 1, 1R, 2, 3, 4 & 5] Mobile Medical Facilities.**

HCAI proposes to renumber 517.24 Mobile Medical Facilities to 517.9 and to move to Part 1 of this chapter. This does not change requirements of the previous code edition but relocates this section to a more appropriate location in the code.

Associated Section: 517.9

**517.29 Type 1 Essential Electrical Systems.**

HCAI proposes to revise the banner for (A.1) to state that for OSHPD 3 facilities this section only applies to Surgical Clinics.

**517.30 Sources of Power.**

HCAI proposes to revise this section by adding new language and repealing previously added language that pulled forward language from the 2023 National Electrical Code into the 2022 California Electrical Code during the 2022 Intervening Code Cycle which allowed additional resources to be utilized as Essential Electrical System Sources. the proposed changes are as follows:

**(A.1)** Add language to clarify the Essential Electrical System (EES) requirements in (A.1). This revised language from the 2023 National Electrical Code adds a reference to 517.4 where the concept of “entire healthcare facility electrical load” is introduced and clarifies the requirements of the EES in relation to the entire healthcare facility electrical load requirements.

Add the requirement to indicate on the drawings all EES components, as the new designs could become complicated with some on site power generators part of the EES and some not part of the EES.

Add the requirement to locate the two independent sources (or set of sources) to avoid simultaneous interruption.

Associated Section: 517.4

**(B.1)** HCAI proposes to repeal B.1, which is no longer needed, as this language has been incorporated in the 2023 NEC, Section 517.30 (B). The requirement for on premises fuel or battery storage requirements has been removed and will be added back in under 517.31(H).

**(B)(3)** HCAI proposes to repeal the California amendment to Battery Systems. (note this was (B)(3) Battery Systems was old name for this section, so amendment is an orphan and needs to be removed to avoid confusion. Provisions for temporary generator connections are provided in 517.30(D) for this code edition.

**(B)(4)** HCAI proposes to repeal (B)(4), which is no longer needed, as this language has been incorporated in the 2023 NEC, Section 517.30 (B)(5).

Removes the statement that all on premises sources of power shall meet the fuel storage requirements found in Article 700.12(D) as this will be called out in 517.31(H) below.

Removes the pointer to Center for Medicare and Medicaid Services requirements, as these requirements have been waived by Center for Medicare and Medicaid Services.

**(B)(5)** HCAI proposes to add the requirement for healthcare microgrids to meet installation and commissioning requirements stated in NFPA 99.

**(D)** HCAI proposes to add (D) which requires provisions for permanent connection points to allow for connection of temporary sources without rewiring.

### **517.31(D.1) Requirements for the Essential Electrical System.**

HCAI proposes to repeal the amendment in 517.31(D.1) regarding the capacity of Essential Electrical Systems. With these changes removed, the 2025 California Electrical Code will match language in the 2023 National Electrical Code.

### **517.31(E) Requirements for the Essential Electrical System.**

HCAI proposes to repeal the California amendment in Section 517.31(E) Receptacle Identification and repeal the OSHPD banner. The 2023 National Electrical Code picked up these changes, so the amendments are no longer needed. HCAI proposes to adopt model code unamended.

### **517.31(H) On-site energy storage systems and fuel supply**

HCAI proposes to add 517.31(H) which relocates and rewrites the on-site emergency generator fuel requirements for Type 1 essential electrical systems which were previously included as exceptions to 700.12(D). HCAI proposes to revise the language from "internal combustion engine fuel supply" to "On-site energy storage systems and fuel supply" to align with the new model code language which allows essential power sources other than generators. The section is coadopted with the Office of the State Fire Marshal.

Associated Section: 700.12 (D)(2)(a).

**517.31(H)(1)** HCAI proposes to add 517.31(H)(1) to specify on-site energy storage systems and fuel supply requirements for correctional treatment centers that provide optional services, and for acute care hospital facilities required to meet NPC-5 requirements. These are the same requirements that were previously in 700.12(D)(2). The section is coadopted with the Office of the State Fire Marshal.

Associated Section: 700.12 (D)(2) Exception No. 1.

**517.31(H)(2)** HCAI proposes to add 517.31(H)(2) to specify on-site energy storage systems and fuel supply requirements for correctional treatment centers with 7 beds or more that provide only basic services and for acute psychiatric hospitals with 7 beds or

more. These are the same requirements that were previously in 700.12(D)(2). The section is coadopted with the Office of the State Fire Marshal.

Associated Section: 700.12 (D)(2) Exception No. 2.

### **517.41 Required Power Sources.**

HCAI proposes to repeal previously added HCAI revisions to this section and to identify requirements for Essential Electrical System sources for nursing homes, intermediate and skilled nursing facilities, and correctional treatment centers and acute psychiatric hospitals not subject to 517.29(A.1) to match those requirements found in Article 517.30 (for hospitals). The proposed changes are as follow:

**(A.1) [OSHPD 2, 4 & 5] Two Independent Power Sources.** HCAI proposes to add language to clarify Essential Electrical System (EES) requirements in (A.1). Note: this revises language from the 2023 National Electrical Code adds a reference to 517.4 where the concept of “entire healthcare facility electrical load” is introduced and clarifies requirements of the EES in relation to the entire healthcare facility electrical load requirements.

Add the requirement to indicate on the drawings all EES components, as the new designs could become complicated with some on site power generators part of the EES and some not part of the EES.

Add the requirement to locate the two independent sources (or set of sources) to avoid simultaneous interruption.

**(B.1) [OSHPD 2, 4 & 5] Power Sources for the EES.** HCAI proposes to repeal B.1 and all associated subheadings (1) – (4) which are no longer needed, as we now propose to identify acceptable EES sources in D.

Repeal the statement that all on premises sources of power shall meet the fuel storage requirements found in Article 700.12 (as this will be called out in 517.42(G) below.

Repeal the pointer to Center for Medicare and Medicaid Services requirements, as these requirements have been waived by Center for Medicare and Medicaid Services.

**(D) [OSHPD 2, 4 & 5] Power Sources for the EES.** Adds in (D) which states that acceptable alternate power sources for the EES listed in 517.30(B)(1) – (B)(5) are acceptable for type 2 EES sources.

**(E) [OSHPD 2, 4 & 5] Permanent Connection(s) Points for EES Maintenance and Repairs.** Adds in (E) which requires provisions for permanent connection points to the EES to allow for connection of temporary sources without rewiring.

### **517.42(E) Receptacle Identification.**

HCAI proposes to repeal the OSHPD banner for Receptacle Identification and adopt the model code language unamended. The 2022 California Electrical Code has a printing error that shows model code language “or the cover plates for the electrical receptacles” in italics, and it should be all upright text, so no more changes are necessary.

### **517.42(G) [SFM, OSHPD 2, 4 & 5] On-site energy storage systems and fuel supply.**

HCAI proposes to add 517.42(G) which relocates and rewrites the on-site emergency

generator fuel requirements for Type 2 essential electrical systems which were previously included as exceptions to 700.12(D). HCAI proposes to revise the language from “internal combustion engine fuel supply” to “On-site energy storage systems and fuel supply” to align with the new model code language which allows essential power sources other than generators. The section is coadopted with the Office of the State Fire Marshal.

Associated Section: 700.12 (D)(2).

**517.42(G)(1)** Adds on-site energy storage systems and fuel supply requirements for correctional treatment centers with seven beds or more that provide only basic services for acute psychiatric hospitals with seven beds or more, for intermediate care facilities and for skilled nursing facilities. These are the same requirements that were previously in 700.12(D)(2). The section is coadopted with the Office of the State Fire Marshal.

Associated Section: 700.12 (D)(2) Exception No. 2.

**517.42(G)(2)** on-site energy storage systems and fuel supply requirements for skilled nursing facilities that have an alternate source of power that is independent of the EES that provides power to meet new requirements found in the CEC 517.1(B). If the EES is independent of these alternate power sources the EES on-site fuel supply will need to meet the 96 hour run time required in CEC 517.1(B). The section is coadopted with the Office of the State Fire Marshal.

Associated Section: 517.1(B).

#### **517.44(B)(3.1) Connection to Equipment Branch.**

HCAI proposes to repeal 517.41(B)(3.1) Optional Connections to the Equipment Branch and adopt the model code language in 517.44 (B)(3). This HCAI amendment is the same as the 2023 National Electrical Code requirement, and therefore, is no longer necessary.

#### **517.45 Essential Electrical Systems for Other Health Care Facilities.**

**(E.1) [OSHPD 3 (Surgical Clinics only)].** HCAI proposes to revise the banner for **(E.1)** to state that for OSHPD 3 facilities this section only applies to Surgical Clinics.

HCAI proposes to revise 517.45 **(E.1)** to repeal the requirement to have a generator for Ambulatory Surgical Clinics and to instead require that the Essential Electrical System source meets the requirements found in 517.29 – 517.35.

**(G) [OSHPD 3] Ambulatory Surgical Clinics.)** HCAI proposes to repeal (G) because it is redundant with **(E.1)** above.

**(H) [OSHPD 3] Hemodialysis Clinic** is renumbered to **(G)**.

**(H) [SFM, OSHPD 3 (Surgical Clinics only)].** HCAI proposes to add 517.45(H) which relocates and rewrites the on-site emergency generator fuel requirements for Surgical Clinics which were previously included as exceptions to 700.12(D). HCAI proposes to revise the language from “internal combustion engine fuel supply” to “on-site energy storage systems and fuel supply” to coincide with the new model code language which allows essential power sources other than generators. The section is coadopted with the Office of the State Fire Marshal.

Associated Section: 700.12 (D)(2) Exception No. 3.

### **517.63 Grounded Power Systems in Anesthetizing Locations.**

**(A) Battery-Powered Lighting Units.** HCAI proposes to amend the 2023 National Electrical Code to add the requirement for battery powered lighting units installed in Anesthetizing locations to “*be capable of providing lighting for 1-12 hours*”. This language is taken directly from 2022 NFPA 99 [6.3.2.6.7] and is added to this section to bring this requirement into the 2025 California Electrical Code.

### **517.80 Patient Care Spaces.**

HCAI proposes to repeal the amendment in 517.80 regarding Class 2 circuits that transmit power and data to a power device, and to remove the note pointing to ANSI/NEMA C137.3. These revisions were added in the intervening code cycle to pull the language from the 2023 National Electrical Code into the 2022 California Electrical Code. Now that HCAI is adopting the 2023 National Electrical Code, these amendments are redundant and so no longer needed.

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

HCAI proposes to revise the requirement for call stations located in shower stalls and tubs to remove the requirement to be located within reach of staff without the need to step into the stall or tub.

#### **CAC Recommendation:**

Approve items 8-1, 8-2, 8-3 and 8-4

Further Study item 8-5

Approve items 8-6, 8-7 and 8-8

Further Study item 8-9

Approve items 8-10, 8-11, 8-12, 8-13 and 8-14

Further study item 8-15

Approve items 8-16, 8-17, 8-18, 8-19, 9-20, 8-21 and 8-22

Further study item 8-23

Approve items 8-24, 8-25, 8-26, 8-27, 8-28, 8-29, 8-30 and 8-31.

#### **Agency Response:**

Accept items 8-1, 8-2, 8-3 and 8-4

Accept Item 8-5. After HCAI further study, HCAI proposes to remove “6” in the banner.

Accept items 8-6, 8-7 and 8-8

Disagree item 8-9. This does not apply to OSHPD 3 facilities. HCAI proposes to leave as originally submitted.

Accept items 8-10, 8-11, 8-12, 8-13 and 8-14

Accept item 8-15, HCAI has revised “and” to “or”

Accept items 8-16, 8-17, 8-18, 8-19, 8-20, 8-21 and 8-22.

Accept item 8-23 HCAI has revised to show “or the cover plates for the electrical receptacles” to be struck out.

Accept items 8-24, 8-25, 8-26, 8-27, 8-28, 8-29, 8-30 and 8-31.

## **ITEM 9**

### **Chapter 5 Special Occupancies**

#### **ARTICLE 518 Assembly Occupancies**

#### **ARTICLE 520 Theaters, Audience Areas of Motion Picture and Television Studios, Performance Areas, and Similar Locations**

Adopt entire 2023 National Electrical Code Articles 518 and 520 without amendments for OSHPD 1, 1R, 2, 3, 4, 5 & 6.

#### **ARTICLE 522 Control Systems for Permanent Amusement Attractions**

#### **ARTICLE 525 Carnivals, Circuses, Fairs, and Similar Events**

#### **ARTICLE 530 Motion Picture and Television Studios and Remote Locations**

Articles 522, 525 and 530 are not adopted for OSHPD 1, 1R, 2, 3, 4, 5 & 6.

#### **ARTICLE 540 Motion Picture Projection Rooms**

#### **ARTICLE 545 Manufactured Buildings and Relocatable Structures**

Adopt entire 2023 National Electrical Code Articles 540 and 545 without amendments for OSHPD 1, 1R, 2, 3, 4, 5 & 6.

#### **ARTICLE 547 Agricultural Buildings**

#### **ARTICLE 550 Mobile Homes, Manufactured Homes, and Mobile Home Parks**

#### **ARTICLE 551 Recreational Vehicles and Recreational Vehicle Parks**

#### **ARTICLE 552 Park Trailers**

#### **ARTICLE 555 Marinas, Boatyards, Floating Buildings, and Commercial and Noncommercial Docking Facilities**

Articles 547, 550, 551, 552 and 555 are not adopted for OSHPD 1, 1R, 2, 3, 4, 5 & 6.

#### **ARTICLE 590 Temporary Installations**

Adopt entire 2023 National Electrical Code Article 590 without amendments for OSHPD 1, 1R, 2, 3, 4, 5 & 6.

#### **CAC Recommendation:**

Approve

#### **Agency Response:**

Accept

## **ITEM 10**

### **Chapter 6 Special Equipment**

#### **ARTICLE 600 Electric Signs and Outline Lighting**

#### **ARTICLE 604 Manufactured Wiring Systems**

#### **ARTICLE 605 Office Furnishings**

#### **ARTICLE 610 Cranes and Hoists**

Adopt entire 2023 National Electrical Code Articles 600, 604, 605 and 610 without amendments for OSHPD 1, 1R, 2, 3, 4, 5 & 6.

## **ARTICLE 620 Elevators, Dumbwaiters, Escalators, Moving Walks, Platform Lifts, and Stairway Chairlifts**

Adopt entire 2023 National Electrical Code Article 620 for OSHPD 1R, 2, 3, 4, 5 & 6. Adopt entire 2023 National Electrical Code Article 620 and carry forward existing amendment from the 2022 California Electrical Code for OSHPD 1.

## **ARTICLE 625 Electric Vehicle Power Transfer System**

Adopt entire 2023 National Electrical Code Article 625 without amendments for OSHPD 1, 1R, 2, 3, 4, 5 & 6.

## **ARTICLE 626 Electrified Truck Parking Spaces**

Article 626 is not adopted for OSHPD 1, 1R, 2, 3, 4, 5 & 6.

## **ARTICLE 630 Electric Welders**

## **ARTICLE 640 Audio Signal Processing, Amplification, and Reproduction Equipment**

## **ARTICLE 645 Information Technology Equipment**

## **ARTICLE 646 Modular Data Centers**

## **ARTICLE 647 Sensitive Electronic Equipment**

## **ARTICLE 650 Pipe Organs**

## **ARTICLE 660 X-Ray Equipment**

## **ARTICLE 665 Induction and Dielectric Heating Equipment**

## **ARTICLE 668 Electrolytic Cells**

Adopt entire 2023 National Electrical Code Articles 630, 640, 645, 646, 647, 650, 660, 665 and 668 without amendments for OSHPD 1, 1R, 2, 3, 4, 5 & 6.

## **ARTICLE 669 Electroplating**

## **ARTICLE 670 Industrial Machinery**

## **ARTICLE 675 Electrically Driven or Controlled Irrigation Machines**

Articles 699, 670 and 675 are not adopted for OSHPD 1, 1R, 2, 3, 4, 5 & 6.

## **ARTICLE 680 Swimming Pools, Fountains, and Similar Installations**

## **ARTICLE 682 Natural and Artificially Made Bodies of Water**

## **ARTICLE 685 Integrated Electrical Systems**

## **ARTICLE 690 Solar Photovoltaic (PV) Systems**

## **ARTICLE 691 Large-Scale Photovoltaic (PV) Electric Supply Stations**

## **ARTICLE 692 Fuel Cell Systems**

## **ARTICLE 694 Wind Electric Systems**

Adopt entire 2023 National Electrical Code Articles 680, 682, 685, 690, 691, 692 and 694 without amendments for OSHPD 1, 1R, 2, 3, 4, 5 & 6.

## **ARTICLE 695 Fire Pumps**

Adopt entire 2023 National Electrical Code Article 695 for OSHPD 1, 1R, 2, 3, 4, 5 & 6, carry forward existing amendments from the 2022 California Electrical Code for OSHPD 1, 1R, 2, 3, 4, & 5.

## **CAC Recommendation**

Approve

## **Agency Response:**

Accept

### **ITEM 11**

#### **Chapter 7 Special Conditions**

#### **ARTICLE 700 Emergency Systems**

Adopt entire 2023 National Electrical Code Article 700 for OSHPD 1, 1R, 2, 3, 4, 5 & 6, carry forward existing amendments from the 2022 California Electrical Code for OSHPD 1, 1R, 2, 3, 4, & 5 and repeal amendments in 700.12.

#### **700.12 General Requirements.**

**(C) Storage Battery.** Repeal the exception for 700.12(C) Storage Battery which calls out rating and capacity to maintain full demand load for the time durations specified in 700.12(D)(2)(a). This requirement for rating and duration is being moved from Article 700 to Article 517 with proposed revisions. Note: the 2023 NEC no longer has Battery Storage section in 700.12(C).

**(D)(2) Internal Combustion Engines as Prime Movers.** Repeal the 700.12(D)(2) exceptions for on-site fuel supply for internal combustion engines for various building types. Note this text is being moved from Article 700 to Article 517 with revisions.

Associated Sections: 517.31(H), 517.42(G) and 517.45(H)

**(G) Fuel Cell System.** Repeal exception regarding fuel cell system fuel requirements, note this is covered in Article 517 with proposed revisions.

Associated Sections: 517.31(H), 517.42(G)

#### **ARTICLE 701 Legally Required Standby Systems**

#### **ARTICLE 702 Optional Standby Systems**

Adopt entire 2023 National Electrical Code Articles 701 and 702 without amendments for OSHPD 1, 1R, 2, 3, 4, 5 & 6.

#### **ARTICLE 705 Interconnected Electric Power Production Sources**

Adopt entire 2023 National Electrical Code Article 705 for OSHPD 1, 1R, 2, 3, 4, 5 & 6, carry forward existing amendment from the 2022 California Electrical Code for OSHPD 1, 1R, 2, 3, 4 & 5, and add OSHPD Banner 6 in Section 705.20.

#### **ARTICLE 706 Energy Storage Systems**

Adopt entire 2023 National Electrical Code Articles 706 without amendments for OSHPD 1, 1R, 2, 3, 4, 5 & 6.

#### **ARTICLE 708 Critical Operations Power Systems (COPS)**

Adopt entire 2023 National Electrical Code Article 708 for OSHPD 1, 1R, 2, 3, 4, 5 & 6, carry forward existing amendment in Section 708.1 in the 2022 California Electrical Code for OSHPD 1, 1R, 2, 3, 4 & 5, and add OSHPD Banner 6 to this amendment.

**ARTICLE 710 Stand-Alone Systems**

**ARTICLE 722 Cables for Power-Limited Circuits and Fault -Managed Power Circuits**

**ARTICLE 724 Class 1 Power-Limited Circuits and Class 1 Power-Limited Remote-Control and Signaling Circuits**

**ARTICLE 725 Class 2 and Class 3 Power-Limited Circuits**

**ARTICLE 726 Class 4 Fault-Managed Power Systems**

**ARTICLE 728 Fire-Resistive Cable Systems**

**ARTICLE 750 Energy Management Systems**

**ARTICLE 760 Fire Alarm Systems**

**ARTICLE 770 Optical Fiber Cables**

Adopt entire 2023 National Electrical Code Articles 710, 722, 724, 725, 726, 728, 750, 760 and 770 without amendments for OSHPD 1, 1R, 2, 3, 4, 5 & 6.

**CAC Recommendation:**

Approve

**Agency Response:**

Accept

**ITEM 12**

**Chapter 8 Communications Systems**

**ARTICLE 800 General Requirements for Communications Systems**

**ARTICLE 805 Communications Circuits**

**ARTICLE 810 Antenna Systems**

**ARTICLE 820 Community Antenna Television and Radio Distribution Systems**

**ARTICLE 830 Network-Powered Broadband Communications Systems**

**ARTICLE 840 Premises-Powered Broadband Communications Systems**

Adopt entire 2023 National Electrical Code Articles 800, 805, 810, 820, 830 and 840 without amendments for OSHPD 1, 1R, 2, 3, 4, 5 & 6.

**CAC Recommendation:**

Approve

**Agency Response:**

Accept

**ITEM 13**

**Chapter 9 Tables**

Adopt entire 2023 National Electrical Code Chapter 9 Tables without amendments for OSHPD 1, 1R, 2, 3, 4, 5 & 6.

**CAC Recommendation:**

Approve

**Agency Response:**

Accept

## **ITEM 14**

### **Annexes A, B, C, D, E, F, G, H, I, J and K**

2023 National Electric Code Annexes A, B, C, D, E, F, G, H, I, J and K are not adopted for OSHPD 1, 1R, 2, 3, 4, 5 & 6.

#### **CAC Recommendation:**

Approve

#### **Agency Response:**

Accept

### **TECHNICAL, THEORETICAL, AND EMPIRICAL STUDY, REPORT, OR SIMILAR DOCUMENTS**

Government Code Section 11346.2(b)(3) requires an identification of each technical, theoretical, and empirical study, report, or similar document, if any, upon which the agency relies in proposing the regulation(s).

Content from 2021 NFPA 99 – Health Care Facilities Code was referenced and used for some of the proposed amendments.

### **STATEMENT OF JUSTIFICATION FOR PRESCRIPTIVE STANDARDS**

Government Code Section 11346.2(b)(1) requires a statement of the reasons why an agency believes any mandates for specific technologies or equipment or prescriptive standards are required.

The proposed changes do not mandate any specific technologies or equipment and do not require any prescriptive standards.

### **CONSIDERATION OF REASONABLE ALTERNATIVES**

Government Code Section 11346.2(b)(4)(A) requires a description of reasonable alternatives to the regulation and the agency's reasons for rejecting those alternatives. In the case of a regulation that would mandate the use of specific technologies or equipment or prescribe specific action or procedures, the imposition of performance standards shall be considered as an alternate. It is not the intent of this paragraph to require the agency to artificially construct alternatives or describe unreasonable alternatives.

There were no alternatives for consideration by HCAI. The proposed amendments will provide clarification and consistency within the code and are in alignment with national standards.

### **REASONABLE ALTERNATIVES THE AGENCY HAS IDENTIFIED THAT WOULD LESSEN ANY ADVERSE IMPACT ON SMALL BUSINESS**

Government Code Section 11346.2(b)(4)(B) requires a description of any reasonable alternatives that have been identified or that have otherwise been identified and brought to the attention of the agency that would lessen any adverse impact on small business.

HCAI did not identify any adverse impact on small business, therefore no reasonable alternatives were researched or identified.

## **FACTS, EVIDENCE, DOCUMENTS, TESTIMONY, OR OTHER EVIDENCE OF NO SIGNIFICANT ADVERSE IMPACT ON BUSINESS**

Government Code Section 11346.2(b)(5)(A) requires the facts, evidence, documents, testimony, or other evidence on which the agency relies to support an initial determination that the action will not have a significant adverse economic impact on business.

HCAI has identified that there will be no adverse economic impact on businesses on the basis that the provisions proposed are optional.

## **ASSESSMENT OF EFFECT OF REGULATIONS UPON JOBS AND BUSINESS EXPANSION, ELIMINATION OR CREATION**

Government Code Sections 11346.3(b)(1) and 11346.5(a)(10)

OSHPD has assessed whether and to what extent this proposal will affect the following:

**A. The creation or elimination of jobs within the State of California.**

The proposed regulations will not create or eliminate jobs within the State of California.

**B. The creation of new businesses or the elimination of existing businesses within the State of California.**

The proposed regulations will not create new businesses or eliminate existing businesses with the State of California.

**C. The expansion of businesses currently doing business within the State of California.**

The proposed regulations will not cause expansion of businesses currently doing business with the State of California.

**D. The benefits of the regulation to the health and welfare of California residents, worker safety, and the state's environment.**

The proposed building standards and regulations regarding the design and construction of licensed health facilities ensure protection of the public's health, safety, and welfare of California residents through updated amendments. The regulations will not affect worker safety, or the state's environment.

## **ESTIMATED COST OF COMPLIANCE, ESTIMATED POTENTIAL BENEFITS, AND RELATED ASSUMPTIONS USED FOR BUILDING STANDARDS**

Government Code Section 11346.2(b)(5)(B)(i) states if a proposed regulation is a building standard, the initial statement of reasons shall include the estimated cost of compliance, the estimated potential benefits, and the related assumptions used to determine the estimates.

HCAI finds that the proposed building standards will result in no cost.

## **DUPLICATION OR CONFLICTS WITH FEDERAL REGULATIONS**

Government Code Section 11346.2(b)(6) requires a department, board, or commission within the Environmental Protection Agency, the Resources Agency, or the Office of the State Fire Marshal to describe its efforts, in connection with a proposed rulemaking action, to avoid unnecessary duplication or conflicts with federal regulations contained in the Code of Federal Regulations addressing the same issues. These agencies may adopt

regulations different from these federal regulations upon a finding of one or more of the following justifications: (A) The differing state regulations are authorized by law and/or (B) The cost of differing state regulations is justified by the benefit to human health, public safety, public welfare, or the environment.

The proposed regulations do not duplicate or conflict with Federal regulations.