# COMMISSION ACTION MATRIX Plumbing, electrical, mechanical and energy (peme cac) CODE ADVISORY COMMITTEE

## 2022 california electrical code, TITLE 24, PART 3 AGENCY: office of statewide health planning and development (OSHPD 04/22)

### LEGEND:

**CAC Actions:** Approve, Disapprove, Approve as Amended, Further Study Required

**Agency Responses:** Accept, Disagree, Withdraw

**CBSC Actions:** Approve, Disapprove, Approve as Amended, Further Study Required

**Matrix Paper Color** (for commission action only): GREEN = uncontested items, YELLOW = challenged items, SALMON = withdrawn, no action required

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

* 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* Repealed model code language appears ~~upright and in strikeout~~
* Repealed California amendments appear in *~~italic and strikeout~~*
* Ellipses (...) indicate existing text remains unchanged

### Chapter 2 wiring and protection, article 220 branch-circuit, feeder and service load calculations

OSHPD proposes to adopt new articles/tables and amend existing articles as listed below.

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| **Item Number 1** | **Code Section** | **CAC Action** | **Agency Response** | **Public Comments** | **Annotations** | **CBSC Action** |
| OSHPD 04/22-1-1 | 220.1 | Disapprove | Disagree |  | Propose to modify existing language and add “Part VI” for calculation methods for health care facilities.  **CAC**: 9 Pt Criteria: 3 & 7. Definitions from NFPA 99 Needs to be reviewed and discussed with SFM, Add Banners, adopting 2023 NEC model code language early when not life/safety sets a precedent.  **OSHPD**: 2023 provides the opportunity for lower calculated loads which could result in smaller generators (more appropriately sized) at California healthcare facilities. |  |
| OSHPD 04/22-1-2 | 220.40 | Disapprove | Disagree |  | Propose to modify existing language by adding “Part VI” as new increased demand factor for patient care spaces.  **CAC**: 9 Pt Criteria: 3 & 7. Definitions from NFPA 99 Needs to be reviewed and discussed with SFM, Add Banners, adopting 2023 NEC model code language early when not life/safety sets a precedent.  **OSHPD**: 2023 provides the opportunity for lower calculated loads which could result in smaller generators (more appropriately sized) at California healthcare facilities. |  |
| OSHPD 04/22-1-3 | *220.110* | Disapprove | Disagree |  | Propose to adopt new Ca amendment which adds increased demand factors for receptacles supplied by branch circuits in patient care spaces.  **CAC**: 9 Pt Criteria: 3 & 7. Definitions from NFPA 99 Needs to be reviewed and discussed with SFM, Add Banners, adopting 2023 NEC model code language early when not life/safety sets a precedent.  **OSHPD**: 2023 provides the opportunity for lower calculated loads which could result in smaller generators (more appropriately sized) at California healthcare facilities. |  |
| OSHPD 04/22-1-4 | *Table 220.110(1)* | Disapprove | Disagree |  | Propose to adopt new Table for demand factors for receptacles supplied by general purpose branch circuits – category 1 & 2 patient care spaces.  **CAC**: 9 Pt Criteria: 3 & 7. Definitions from NFPA 99 Needs to be reviewed and discussed with SFM, Add Banners, adopting 2023 NEC model code language early when not life/safety sets a precedent.  **OSHPD**: 2023 provides the opportunity for lower calculated loads which could result in smaller generators (more appropriately sized) at California healthcare facilities. |  |
| OSHPD 04/22-1-5 | *Table 220.110(2)* | Disapprove | Disagree |  | Propose to adopt new Table for demand factors for receptacles supplied by general purpose branch circuits – category 3 & 4 patient care spaces.  **CAC**: 9 Pt Criteria: 3 & 7. Definitions from NFPA 99 Needs to be reviewed and discussed with SFM, Add Banners, adopting 2023 NEC model code language early when not life/safety sets a precedent.  **OSHPD**: 2023 provides the opportunity for lower calculated loads which could result in smaller generators (more appropriately sized) at California healthcare facilities. |  |

### Chapter 5 special occupancies, article 517 health care facilities

OSHPD proposes to amend existing article as listed below.

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| **Item Number 2** | **Code Section** | **CAC Action** | **Agency Response** | **Public Comments** | **Annotations** | **CBSC Action** |
| OSHPD 04/22-2 | 517.1 *(B)* | Further Study | Accept |  | Propose to modify existing article to add, skilled nursing facilities shall have an alternate source of power for power outages that may result from a public safety power shutoff, an emergency, a natural disaster, or other cause.  **CAC**: 9 Pt Criteria 3. Agency to look into how to choose alternate source power with various restoration times (Standby power, legally required has a time and essential is under emergency time frame). “And/or” can lead to user confusion.  **CAC**: comment to coordinate reference information with CBC 1705A.14.3.1 for seismic considerations regarding applicability to OSHPD 2.  **CAC** comment recommending OSHPD coordinate with OSHPD 04/22 Item 8 to clarify whether this amendment is addressing the alternate source of power solution chosen is meeting intent of the new statute regarding format and numbering and correlating with the phrase “(2) the Batteries and/or renewable electrical generation systems.”  **OSHPD**: We have added required power restoration time limits to the proposed change. We have removed the “and/or” text in the updated Express Terms.  **OSHPD**: #3 Revised reference to CBC to ASCE.  **OSHPD**: Paragraph 2 was separated into items (2) a. and b. to clarify the differences between generator units and battery systems. |  |

### Chapter 5 special occupancies, article 517 health care facilities

OSHPD proposes to add new definitions to existing article as listed below.

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| **Item Number 3** | **Code Section** | **CAC Action** | **Agency Response** | **Public Comments** | **Annotations** | **CBSC Action** |
| OSHPD 04/22-3-1 | *Health Care Microgrid* | Approve | Disagree |  | Propose to adopt new definition.  **CAC**: Add Banner, consider changing definition to match model code: Microgrid, Health Care.  **OSHPD**: Revised the definition for Healthcare Microgrid to match model code. |  |
| OSHPD 04/22-3-2 | *Health Care Microgrid Control System* | Approve | Disagree |  | Propose to adopt new definition.  **CAC**: Add Banner, consider changing definition to match model code: Microgrid Control Systems (MCS).  **OSHPD**: Revised the definition for Healthcare Microgrid Control System to match model code. |  |

### Chapter 5 special occupancies, article 517 health care facilities

OSHPD proposes to add new definitions to existing article as listed below.

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| **Item Number 4** | **Code Section** | **CAC Action** | **Agency Response** | **Public Comments** | **Annotations** | **CBSC Action** |
| OSHPD 04/22-4-1 | *Life-Saving Equipment* | Approve | Accept |  | Propose to adopt new definition.  **CAC**: Recommendation for more ISOR rationale for adopting industry standard term. |  |
| OSHPD 04/22-4-2 | *Oxygen-Generating Devices* | Approve | Accept |  | Propose to adopt new definition.  **CAC**: Recommendation for more ISOR rationale for adopting industry standard term. |  |

### Chapter 5 special occupancies, article 517 health care facilities

OSHPD proposes to amend existing article as listed below.

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| **Item Number 5** | **Code Section** | **CAC Action** | **Agency Response** | **Public Comments** | **Annotations** | **CBSC Action** |
| OSHPD 04/22-5 | 517.13 *(C)* & *(D)* | Approve | Disagree |  | Propose to modify existing article with new (C) & Grounding system testing requirements and (D) Receptacle testing in patient care spaces.  **CAC**: Recommend consistency with NFPA year (add in all or remove)  **OSHPD**: Removed year on the publication NFPA. |  |

### Chapter 5 special occupancies, article 517 health care facilities

OSHPD proposes to amend existing article as listed below.

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| **Item Number 6** | **Code Section** | **CAC Action** | **Agency Response** | **Public Comments** | **Annotations** | **CBSC Action** |
| OSHPD 04/22-6 | 517.18 (B)(2) *Exception 3* | Disapprove | Withdraw |  | Propose to modify requirements for receptacles at patient bed in skilled nursing facilities and intermediate care facilities.  **CAC**: 9 Pt Criteria 3, 4, 7. Adding 2023 NEC model code language early when not life/safety sets a precedent. |  |

### Chapter 5 special occupancies, article 517 health care facilities

OSHPD proposes to amend existing article as listed below.

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| **Item Number 7** | **Code Section** | **CAC Action** | **Agency Response** | **Public Comments** | **Annotations** | **CBSC Action** |
| OSHPD 04/22-7 | 517.20 & (A)(2) | Approve | Disagree |  | Propose to modify existing article with a wet procedure location.  **CAC**: Consider adding banners and revise formatting for clarity.  **OSHPD**: OSHPD Banners have been added; some existing code language was added for clarity; and formatting was updated to match model code. |  |

### Chapter 5 special occupancies, article 517 health care facilities

OSHPD proposes to amend existing article as listed below.

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| **Item Number 8** | **Code Section** | **CAC Action** | **Agency Response** | **Public Comments** | **Annotations** | **CBSC Action** |
| OSHPD 04/22-8 | 517.30 *(B.1)* & *(1.1)~~(A)(B)~~*  *~~(C)(D)~~* & *(4)* | Approve | Disagree |  | Propose to modify existing article by adding health care microgrids as an acceptable EES for hospitals. Repeal existing Ca amendment.  **OSHPD**: Removed 517.30(B.1)(1) Generating Units. |  |

### Chapter 5 special occupancies, article 517 health care facilities

OSHPD proposes to amend existing article as listed below.

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| **Item Number 9** | **Code Section** | **CAC Action** | **Agency Response** | **Public Comments** | **Annotations** | **CBSC Action** |
| OSHPD 04/22-9 | 517.31 (E) | Approve | Disagree |  | Propose to modify existing article re: switch and receptacle identification requirements.  **CAC:** Comment to consider further clarifying “engraved text” to be identified in code language for different functions of the receptacles.  **OSHPD**: Removed the requirements on how to color or mark the cover plates for electrical receptacles, including the reference to “engraved text”. |  |

### Chapter 5 special occupancies, article 517 health care facilities

OSHPD proposes to amend existing article as listed below.

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| **Item Number 10** | **Code Section** | **CAC Action** | **Agency Response** | **Public Comments** | **Annotations** | **CBSC Action** |
| OSHPD 04/22-10 | 517.35 (B)(6) | Approve as Amended | Accept |  | Propose to modify existing article to clarify that minimal autoclaving equipment shall be required to connect to the emergency branch of facilities EES.  **CAC:** 9 Pt Criteria #6. Consider consistency with NFPA year edition. Recommendation to rewrite amendment without paratheses to emphasize autoclaving equipment.  **OSHPD**: Paratheses removed. |  |

### Chapter 5 special occupancies, article 517 health care facilities

OSHPD proposes to amend existing article as listed below.

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| **Item Number 11** | **Code Section** | **CAC Action** | **Agency Response** | **Public Comments** | **Annotations** | **CBSC Action** |
| OSHPD 04/22-11 | 517.41 *~~(B.1)~~*, *(B.1), (1), (2), (3), (4)* | Approve | Disagree |  | Proposed change revises section to match the requirement for Sources of Power found in 517.30.  **OSHPD**: Removed 517.30(B.1)(1) Generating Units. |  |

### Chapter 5 special occupancies, article 517 health care facilities

OSHPD proposes to amend existing article as listed below.

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| **Item Number 12** | **Code Section** | **CAC Action** | **Agency Response** | **Public Comments** | **Annotations** | **CBSC Action** |
| OSHPD 04/22-12-1 | 517.42 (E) | Approve | Disagree |  | Propose to modify existing article which revises receptacle and switch identification requirements at Nursing Homes and Limited Care Facilities to remove labeling requirements for switches.  **CAC:** Comment to consider further clarifying “engraved text” to be identified in code language for different functions of the receptacles.  **OSHPD**: Removed the requirements on how to color or mark the cover plates for electrical receptacles, including the reference to “engraved text”. |  |
| OSHPD 04/22-12-2 | 517.42 *(F)* | Approve | Disagree |  | Propose to adopt (F) as new text by adding the requirements for selective coordination for Nursing Homes and Limited CareFacilities electrical systems.  **CAC:** Comment to consider further clarifying “engraved text” to be identified in code language for different functions of the receptacles.  **OSHPD**: Removed the requirements on how to color or mark the cover plates for electrical receptacles, including the reference to “engraved text”. |  |

### Chapter 5 special occupancies, article 517 health care facilities

OSHPD proposes to amend existing article as listed below.

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| **Item Number 13** | **Code Section** | **CAC Action** | **Agency Response** | **Public Comments** | **Annotations** | **CBSC Action** |
| OSHPD 04/22-13-1 | 517.44 (A)(1)a | Approve | Accept |  | Propose to modify existing article to add language to clarify that receptacles are not required for psychiatric patent beds in non-critical care spaces. |  |
| OSHPD 04/22-13-2 | 517.44 (A)*(7)* | Approve | Accept |  | Propose to modify existing article with minor modification to add the word “or.” |  |

### Chapter 5 special occupancies, article 517 health care facilities

OSHPD proposes to amend existing article as listed below.

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| **Item Number 14** | **Code Section** | **CAC Action** | **Agency Response** | **Public Comments** | **Annotations** | **CBSC Action** |
| OSHPD 04/22-14 | 517.45 *(F)* | Approve | Disagree |  | Propose to modify existing article to revise receptacle and switch identification requirements for other health care facilities.  **CAC:** Comment to consider further clarifying “engraved text” to be identified in code language for different functions of the receptacles.  **OSHPD**: Removed the requirements on how to color or mark the cover plates for electrical receptacles, including the reference to “engraved text”. |  |

### Chapter 5 special occupancies, article 517 health care facilities

OSHPD proposes to amend existing article as listed below.

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| **Item Number 15** | **Code Section** | **CAC Action** | **Agency Response** | **Public Comments** | **Annotations** | **CBSC Action** |
| OSHPD 04/22-15 | 517.160 (B)*(4)(a) & (b)* | Approve as Amended | Accept |  | Propose to modify existing article which adds line isolation monitor and circuits tests to define requirements for final approval.  **CAC**: 9 Pt Criteria 6. Identify Acronym LIM & NFPA 99, be consistent include the year in all or remove.  **OSHPD**: Identified Acronym LIM |  |

### Chapter 6 special equipment, article 695 fire pumps

OSHPD proposes to amend existing article as listed below.

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| **Item Number 16** | **Code Section** | **CAC Action** | **Agency Response** | **Public Comments** | **Annotations** | **CBSC Action** |
| OSHPD 04/22-16 | 695.3 (G) | Approve | Accept |  | Propose to modify existing article with minor modification. |  |

### Chapter 7 special conditions, article 705 interconnected electric power production services

OSHPD proposes to amend existing article as listed below.

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| **Item Number 17** | **Code Section** | **CAC Action** | **Agency Response** | **Public Comments** | **Annotations** | **CBSC Action** |
| OSHPD 04/22-17 | 705.20 | Approve | Accept |  | Propose to add new language to existing article for the requirement of disconnecting means to be installed. |  |