# COMMISSION ACTION MATRIXplumbing, electrical, mechanical & energy (peme) CODE ADVISORY COMMITTEE – march 25-26, 2024

## 2025 california mechanical code, TITLE 24, PART 4, 2024 uniform mechanical codeAGENCY: office of statewide hospital planning and development, OSHPD 01/24

### 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**Matrix Paper Color** (for commission action only): GREEN = uncontested items, YELLOW = challenged items, SALMON = withdrawn, no action required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* Repealed model code language appears ~~upright and in strikeout~~
* Repealed California amendments appear in *~~italic and strikeout~~*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

### ITEM 1, Chapter 1 administration, *division i california administration*

Adopt specific sections of 2024 UMC Chapter 1 and carry forward existing amendments from the 2022 CMC into the 2025 CMC with modification as listed below.

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| **OSHPD 01/24****Item Number 1** | **Code Section** | **CACAction** | **Agency Response** | **Public Comments** | **Annotations** | **CBSCAction** |
| 1-1 | ***1.1.3.2, 1.10.0, 1.10.1, 1.10.2. 1.10.4, 1.10.5*** |  |  |  | HCAI proposes to revise the word “Health” to “Hospital” in the agency name. |  |
| 1-2 | ***1.10.6, 110.6.1, 1.10.6.2, 1.10.6.3*** |  |  |  | HCAI proposes to add new Sections - OSHPD 6 for Chemical Dependency Recovery Hospitals. |  |

### ITEM 2, Chapter 2 definitions

Adopt Chapter 2 from the 2024 UMC and carry forward existing amendments from 2022 CMC into the 2025 CMC with modifications as listed below.

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| **OSHPD 01/24****Item Number 2** | **Code Section** | **CACAction** | **Agency Response** | **Public Comments** | **Annotations** | **CBSCAction** |
| 2-1 | ***Air Relief*** |  |  |  | HCAI proposes to remove OSHPD 1R from definition. |  |
| 2-2 | ***Authority Having Jurisdiction*** |  |  |  | HCAI proposes to add the OSHPD 4 and 6 banners to the definition. |  |
| 2-3 | **Building Code*****Enforcing Agency******Health Facilities******UMC*** |  |  |  | HCAI proposes to add the OSHPD 6 banner to the definitions and to revise the word “Health” to “Hospital” in the definition of health facilities. |  |

### ITEM 3, Chapter 3 general regulations

Adopt Chapter 3 from the 2024 UMC and carry forward existing amendments from the 2022 CMC into the 2025 CMC with modifications as listed below.

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| **OSHPD 01/24****Item Number 3** | **Code Section** | **CACAction** | **Agency Response** | **Public Comments** | **Annotations** | **CBSCAction** |
| 3-1 | ***318.1 Applicability*** |  |  |  | HCAI proposes to remove language that refers to Matrix Adoption Tables for OSHPD applications. |  |
| 3-2 | ***321.0 Essential Mechanical Provisions*** |  |  |  | HCAI proposes to remove 1R from banner. |  |
| 3-3 | ***321.3*** |  |  |  | HCAI proposes to add new section cooling equipment. |  |
| 3-4 | ***321.~~3~~4, 321.~~4~~5, 321.~~5~~6, 321.~~6~~7*** |  |  |  | HCAI proposes to renumber sections and add language about fire and smoke dampers. |  |
| 3-5 | ***322.0 Sensitive Areas or Rooms*** |  |  |  | HCAI proposes to revise the list adding new items. |  |

### ITEM 4, Chapter 4 ventilation air

Adopt Chapter 4 from the 2024 UMC for OSHPD 6.
Adopt Chapter 4 for OSHPD 1, 1R, 2, 3, 4 and 5 except section 402.2 and 402.3 and carry forward existing amendments from the 2022 CMC into the 2025 CMC with modifications as listed below.

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| **OSHPD 01/24****Item Number 4** | **Code Section** | **CACAction** | **Agency Response** | **Public Comments** | **Annotations** | **CBSCAction** |
| 4-1 | **401.1 Applicability** |  |  |  | HCAI proposes to revise referenced section numbers due to changes in model code. |  |
| 4-2 | **402.1 Occupiable Spaces** |  |  |  | HCAI proposes to relocate OSHPD banner and add language relocated from 402.1.2. |  |
| 4-3 | **402.1.2 Ventilation in Health Care Facilities** |  |  |  | HCAI proposes to modify to reference Table 4-A for ventilation for health care facilities. Relocate some of the text to 402.1. Modify and add text from ASHRAE 170 to the existing list. |  |
| 4-4 | ***406.0 Evaporative Cooling System for Health Care Facilities*** |  |  |  | HCAI proposes to repeal “food preparation areas” from Evaporative Cooling Systems for health care. |  |

### ITEM 5, Chapter 4, Section 407.0 Ventilation System Details

Carry forward existing Chapter 4 amendments from the 2022 CMC into the 2025 CMC with modification as listed below.

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| **OSHPD 01/24****Item Number 5** | **Code Section** | **CACAction** | **Agency Response** | **Public Comments** | **Annotations** | **CBSCAction** |
| 5-1 | ***407.1.1 General*** |  |  |  | HCAI proposes modify section to coordinate with national standard. Relocate text from Exception 2 to new Section 407.7.  |  |
| 5-2 | ***407.2.2.1 Hazardous Exhaust Outlets*** |  |  |  | HCAI proposes to add new section for “hazardous exhaust outlets.” |  |
| 5-3 | ***407.3.1 Air Balance*** |  |  |  | HCAI proposes to modify section to clarify the pressurization requirements. |  |
| 5-4 | ***~~420.0~~ 407.4.1.1*** |  |  |  | HCAI proposes to relocate from 420.0 |  |
| 5-5 | ***~~407.4.1.6~~ 407.4.1.2*** |  |  |  | HCAI proposes to relocate from 407.4.1.6 |  |
| 5-6 | ***~~407.4.1.1~~ 407.4.1.3*** |  |  |  | HCAI proposes to relocate from 407.4.1.1 |  |
| 5-7 | ***407.4.1.4*** |  |  |  | HCAI proposes to add new section which provides a new requirement for the location of supply registers and return/exhaust inlets in procedure and class 2 imaging rooms. |  |
| 5-8 | ***407.4.1.5*** |  |  |  | HCAI proposes to add new section which includes the return air requirements for operating rooms. |  |
| 5-9 | ***407.4.1.6*** |  |  |  | HCAI proposes to add new section which includes the morgue and autopsy room exhaust requirements. |  |
| 5-10 | ***~~407.4.1.2~~ 407.4.1.7*** |  |  |  | HCAI proposes to renumber 407.4.1.2 to 407.4.1.7 |  |
| 5-11 | ***~~407.4.1.3~~ 407.4.2*** |  |  |  | HCAI proposes to relocate Section 407.4.1.3 to 407.4.2. |  |
| 5-12 | ***~~407.4.1.4~~ 407.4.3, ~~407.4.1.5~~ 407.4.4***  |  |  |  | HCAI proposes to renumber section to accommodate changes in previous sections. |  |
| 5-13 | ***~~407.4.1.6~~*** |  |  |  | HCAI proposes to relocate to 407.4.1.2. |  |
| 5-14 | ***~~407.4.1.7~~ 407.4.5*** |  |  |  | HCAI proposes to modify to accommodate relocation of text to other sections and modify to call out a MERV 8, add requirements for dry-air cooling coils. |  |
| 5-15 | ***407.4.5.1 recirculating Room Units for Unoccupied Spaces*** |  |  |  | HCAI proposes to add new section for “Recirculating Room Units for Unoccupied spaces.” |  |
| 5-16 | ***407.5.1.3*** |  |  |  | HCAI proposes to modify existing section add clarifying language for the modulating dampers are provided to maintain space pressurization. |  |
| 5-17 | ***407.5.1.4*** |  |  |  | HCAI proposes new section to indicate the modulating damper is required for supply and return air. |  |
| 5-18 | ***407.5.1.5*** |  |  |  | HCAI proposes new section to indicate group allowances for spaces that do not require space pressurization. |  |
| 5-19 | ***407.6.1 Economizers*** |  |  |  | HCAI proposes to relocate 407.6 to new subsection 407.6.1 |  |
| 5-20 | ***407.7, 407.7.1 Unoccupied Turndown*** |  |  |  | HCAI proposes to add new section for unoccupied turndown. |  |
| 5-21 | ***407.8, 407.8.1 Building Pressurization*** |  |  |  | HCAI proposes new section for building pressurization. |  |

### ITEM 6, Chapter 4, Section 408.0 Filters

Carry forward existing Chapter 4 amendments from the 2022 CMC into the 2025 CMC with modification as listed below.

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| **OSHPD 01/24****Item Number 6** | **Code Section** | **CACAction** | **Agency Response** | **Public Comments** | **Annotations** | **CBSCAction** |
| 6-1 | ***408.1.5*** |  |  |  | HCAI proposes to repeal filter bank No. 3 from the text. |  |
| 6-2 | ***408.1.6*** |  |  |  | HCAI proposes to modify removing filter bank No. 3 and requiring filter bank No. 2 to have sealing interface surfaces. |  |
| 6-3 | ***408.1.7*** |  |  |  | HCAI proposes to add a new section to specify HEPA filtration. |  |
| 6-4 | ***~~408.2.2, 408.2.3, 408.2.4~~*** |  |  |  | HCAI proposes to repeal these section as they have been incorporated into new sections. |  |
| 6-5 | ***408.3.1*** |  |  |  | HCAI proposes to repeal “complying with requirements of this section.” |  |
| 6-6 | ***~~408.3.2~~*** |  |  |  | HCAI proposes to repeal existing text and relocate 408.3.4 to this section. |  |
| 6-7 | ***~~408.3.3~~*** |  |  |  | HCAI proposes to repeal this section. |  |
| 6-8 | ***~~408.3.4~~ 408.3.2*** |  |  |  | HCAI proposes to relocate the text to 408.3.2 and repeal number 408.3.4. |  |
| 6-9 | ***408.4.1*** |  |  |  | HCAI proposes to repeal “complying with requirements of this section.” |  |
| 6-10 | ***~~408.4.2~~*** |  |  |  | HCAI proposes to repeal existing text. |  |
| 6-11 | ***408.5 Filters for Recirculating Room Units, 408.5.1*** |  |  |  | HCAI proposes to add new section regarding filters for recirculating room units. |  |

### ITEM 7, Chapter 4, Sections 409.0, 414.0, 417.0 and 420.0

Carry forward existing Chapter 4 amendments from the 2022 CMC into the 2025 CMC with modification as listed below.

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| **OSHPD 01/24****Item Number 7** | **Code Section** | **CACAction** | **Agency Response** | **Public Comments** | **Annotations** | **CBSCAction** |
| 7-1 | ***~~409.3 Insulation of Ducts~~******409.~~4~~3*** |  |  |  | HCAI proposes to repeal existing text in 409.3 and renumber Section 409.4 to 409.3. |  |
| 7-2 | ***414.1.1*** |  |  |  | HCAI proposes to adjust the exhaust discharge fan from 7 to 10 feet. |  |
| 7-3 | ***417.0 Testing and Balancing Airborne Infection Isolation Rooms and Protective Environment Rooms*** |  |  |  | HCAI proposes clarifying language to be added for the proper pressure testing requirements. |  |
| 7-4 | ***~~420.0 Distribution Devices~~*** |  |  |  | HCAI proposes to repeal this section number which the text was relocated to 407.4.1.1 |  |

### ITEM 8, Chapter 4, TABLE 4-A

Carry forward existing Chapter 4 amendments from the 2022 CMC into the 2025 CMC with modification as listed below.

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| **OSHPD 01/24****Item Number 8** | **Code Section** | **CACAction** | **Agency Response** | **Public Comments** | **Annotations** | **CBSCAction** |
| 8-1 | ***Table 4-A and Notes*** |  |  |  | HCAI proposes to repeal all items within Table 4-A and replace with ASHRAE Standard 170-2021 |  |

### ITEM 9, Chapter 4, TABLE 4-B

Carry forward existing Chapter 4 amendments from the 2022 CMC into the 2025 CMC with modification as listed below.

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| **OSHPD 01/24****Item Number 9** | **Code Section** | **CACAction** | **Agency Response** | **Public Comments** | **Annotations** | **CBSCAction** |
| 9-1 | ***Table 4-B and Notes*** |  |  |  | HCAI proposes to modify Table and Notes and provide OSHPD banner to title for the specific uses for which it applies to. |  |

### ITEM 10, Chapter 4, TABLE 4-C

Carry forward existing Chapter 4 amendments from the 2022 CMC into the 2025 CMC with modification as listed below.

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| **OSHPD 01/24****Item Number 10** | **Code Section** | **CACAction** | **Agency Response** | **Public Comments** | **Annotations** | **CBSCAction** |
| 10-1 | ***Table 4-C and Notes*** |  |  |  | HCAI proposes to add OSHPD 2 & 4 banner in title and to amend Notes below the table. |  |

### ITEM 11, Chapter 5 exhaust systems

Adopt Chapter 5 from the 2024 UMC and carry forward existing amendments from the 2022 CMC into the 2025 CMC without modifications.

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| **OSHPD 01/24****Item Number 11** | **Code Section** | **CACAction** | **Agency Response** | **Public Comments** | **Annotations** | **CBSCAction** |
| 11-1 | **Chapter 5** |  |  |  | HCAI proposes to adopt Chapter 5 and carry forward existing amendments without modifications. |  |

### ITEM 12, Chapter 6 duct systems

Adopt Chapter 6 from the 2024 UMC and carry forward existing amendment from the 2022 CMC into the 2025 CMC with modifications as listed below.

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| **OSHPD 01/24****Item Number 12** | **Code Section** | **CACAction** | **Agency Response** | **Public Comments** | **Annotations** | **CBSCAction** |
| 12-1 | **603.4.1 Length Limitation** |  |  |  | HCAI proposes to modify to remove 1R from banner. |  |
| 12-2 | ***603.4.1.1 Flexible Ducts*** |  |  |  | HCAI proposes to modify to remove 1R from banner and add info regarding flexible ducts. |  |
| 12-3 | ***605.2*** |  |  |  | HCAI proposes to add rom names to coordinate with Section 322.0 |  |
| 12-4 | ***605.3*** |  |  |  | HCAI proposes to amend this section for MERV 17 filter rating. |  |

### ITEM 13, Chapter 7 combustion air, chapter 8 chimneys and vents

Adopt Chapters 7 and 8 from the 2024 UMC into the 2025 CMC without amendments.

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| **OSHPD 01/24****Item Number 13** | **Code Section** | **CACAction** | **Agency Response** | **Public Comments** | **Annotations** | **CBSCAction** |
| 13 | **Chapter 7 & 8** |  |  |  | HCAI proposes to adopt Chapters 7 & 8 |  |

### ITEM 14, Chapter 9 installation of specific appliances, chapter 10 boilers and pressure vessels

Adopt Chapters 9 & 10 from the 2024 UMC and carry existing amendments from the 2022 CMC into the 2025 CMC with modifications as listed below.

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| **OSHPD 01/24****Item Number 14** | **Code Section** | **CACAction** | **Agency Response** | **Public Comments** | **Annotations** | **CBSCAction** |
| 14-1 | **~~911.1~~ 911.2 Prohibited Installations** |  |  |  | HCAI proposes to carry forward existing amendment from 911.1 to 911.2. due to model code adding in new section. |  |

### ITEM 15, Chapter 11 refrigeration

Adopt Chapter 11 from the 2024 UMC and carry forward existing amendments from the 2022 CMC into the 2025 CMC with modifications as listed below.

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| **OSHPD 01/24****Item Number 15** | **Code Section** | **CACAction** | **Agency Response** | **Public Comments** | **Annotations** | **CBSCAction** |
| 15-1 | **Table 1104.1** |  |  |  | HCAI proposes to repeal the amendment in Table 1104.1 for the I-2.1 Occupancy. |  |

### iTEM 16, Chapter 12 hydronics

Adopt Chapter 12 from the 2024 UMC and carry forward existing amendments from the 2022 CMC into the 2025 CMC without modifications.

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| **OSHPD 01/24****Item Number 16** | **Code Section** | **CACAction** | **Agency Response** | **Public Comments** | **Annotations** | **CBSCAction** |
| 16-1 | **Chapter 12** |  |  |  | HCAI proposes to adopt Chapter 12 and carry forward existing amendments without modifications. |  |

### ITEM 17, Chapter 13 fuel ga piping, chapter 14 process piping

Adopt Chapters 13 & 14 from the 2024 UMC into the 2025 CMC without amendments.

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| **OSHPD 01/24****Item Number 17** | **Code Section** | **CACAction** | **Agency Response** | **Public Comments** | **Annotations** | **CBSCAction** |
| 17-1 | **Chapter 13 & 14** |  |  |  | HCAI proposes to adopt Chapters 13 & 14 |  |

### ITEM 18, Chapter 15 solar energy systems, chapter 16 stationary power plants, chapter 17 geothermal

Do not adopt Chapters 15, 16 & 17 from the 2024 UMC.

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| **OSHPD 01/24****Item Number 18** | **Code Section** | **CACAction** | **Agency Response** | **Public Comments** | **Annotations** | **CBSCAction** |
| 18-1 | **Chapters 15, 16 & 17** |  |  |  | HCAI proposes to not adopt Chapters 15 - 17 |  |

### ITEM 19, Chapter 18 referenced standards

Adopt Chapter 18 from the 2024 UMC and carry forward existing amendments from the 2022 CMC into the 2025 CMC with modification as listed below.

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| **OSHPD 01/24****Item Number 19** | **Code Section** | **CACAction** | **Agency Response** | **Public Comments** | **Annotations** | **CBSCAction** |
| 19-1 | **Table 1701.2*****IEST RP-CC001.7*** |  |  |  | HCAI proposes to add new standard to Table 1701.2 |  |

### ITEM 20, appendix A residential plan examiner review form for hvac system design

Do not adopt Appendix A from the 2024 UMC.

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| **OSHPD 01/24****Item Number 20** | **Code Section** | **CACAction** | **Agency Response** | **Public Comments** | **Annotations** | **CBSCAction** |
| 20-1 | **Appendix A** |  |  |  | HCAI proposes NOT to adopt Appendix A |  |

### ITEM 21, appendix b procedures to be followed to place gas equipment in operation, appendix c installation and testing of oil (liquid) fuel fired equipment

Adopt Appendices B & C from the 2024 UMC into the 2025 CMC without amendments.

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| **OSHPD 01/24****Item Number 21** | **Code Section** | **CACAction** | **Agency Response** | **Public Comments** | **Annotations** | **CBSCAction** |
| 21 | **Appendices B & C** |  |  |  | HCAI proposes to adopt Appendices B & C |  |

### ITEM 22, appendices d, e, f, g, h, i and j

Do not adopt Appendices D, E, F, G, H, I and J from the 2024 UMC.

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| **OSHPD 01/24****Item Number 22** | **Code Section** | **CACAction** | **Agency Response** | **Public Comments** | **Annotations** | **CBSCAction** |
| 22 | **Appendices D, E, F, G, H, I and J** |  |  |  | HCAI proposes NOT to adopt Appendices D, E, F, G, H, I and J |  |