

**FINAL EXPRESS TERMS
FOR
PROPOSED BUILDING STANDARDS
OF THE
OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT**

**REGARDING PROPOSED CHANGES TO
CALIFORNIA MECHANICAL CODE
CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 4**

LEGEND FOR EXPRESS TERMS

1. Existing California amendments or code language being modified: All such language appears in *italics*, modified language is underlined.
2. Repealed text: All such language appears in ~~strikeout~~.

EXPRESS TERMS

**CHAPTER 1
ADMINISTRATION
DIVISION I
CALIFORNIA ADMINISTRATION**

Adopt entire 2012 Uniform Mechanical Code (UMC) Chapter and carry forward existing amendments of the 2010 California Mechanical Code (CMC) for OSHPD 1, 2, 3 & 4.

NOTATION:

Authority: Health and Safety Code Sections 1226, 1275, 18928, 129790 and 129850; Government Code Section 11152.5

Reference: Health and Safety Code Section 129850

**CHAPTER 2
DEFINITIONS**

Adopt entire 2012 Uniform Mechanical Code (UMC) Chapter for OSHPD 1, 2, 3 & 4 without amendments.

Section 217.0 – Proposed amendment to section 217.0 adding definition “OSHPD 3SE” has been withdrawn by OSHPD.

NOTATION:

Authority: Health and Safety Code Sections 1226, 1275, 18928, 129790 and 129850; Government Code Section 11152.5

Reference: Health and Safety Code Section 129850

**CHAPTER 3
GENERAL REQUIREMENTS**

Adopt entire 2012 Uniform Mechanical Code (UMC) Chapter and carry forward existing amendments of the 2010 California Mechanical Code (CMC) for OSHPD 1, 2, 3 & 4 with the following modifications:

315.1.1 The systems shall be designed to provide the temperatures and relative humidity for sensitive areas or rooms shown in Table 315. When outdoor humidity and internal moisture sources are not sufficient to meet the requirements of Table 315, humidification shall be provided by means of the health-care facility air-handling systems. Temperature shall be individually controlled for each operating and delivery room. Burn unit patient rooms that require humidifiers to comply with Table 315 shall be provided with individual humidity control.

NOTATION:

Authority: Health and Safety Code Sections 1226, 1275, 18928, 129790 and 129850; Government Code Section 11152.5

Reference: Health and Safety Code Section 129850

CHAPTER 4 VENTILATION AIR SUPPLY

Adopt entire 2012 Uniform Mechanical Code (UMC) Chapter and carry forward existing amendments of the 2010 California Mechanical Code (CMC) for OSHPD 1, 2, 3 & 4 with the following modifications:

407.2.1 Outdoor Air Intakes. Outdoor air intakes shall be located at least 25 feet (7.62 m) from exhaust outlets of ventilating systems, combustion equipment stacks, medical-surgical vacuum systems, cooling towers, ~~plumbing vents~~, and areas that may collect vehicular exhaust or other noxious fumes. Plumbing vents shall be located in relation to outdoor air intakes per California Plumbing Code. The bottom of outdoor air intakes shall be located as high as practicable, but not less than 10 feet (3048 mm) above ground level. If installed ~~through~~ above the roof, they shall be located 18 inches (457 mm) above roof level or 3 feet (914 mm) above a flat roof where heavy snowfall is anticipated.

...

407.4.1.1 Air supplied to operating rooms, cesarean operating rooms, cardiac catheterization labs, cystoscopy rooms, delivery rooms, and nurseries, shall be delivered at or near the ceiling of the area served. In these areas and in morgues and autopsy rooms ~~and~~ all air removed from the area shall be removed near floor level. Exhaust or recirculation inlets shall be located not less than 3 inches (76 mm) nor more than 8 inches (203 mm) above the finished floor, except in morgues and autopsy rooms where all of the exhaust air is removed through an autopsy table designed for this purpose. At least two exhaust or recirculation air inlets shall be used in all cardiac catheterization labs, cystoscopy rooms, operating rooms, and delivery rooms shall be located not less than 3 inches (76 mm) nor more than 8 inches (203 mm) above the finished floor.

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Section 407.4.1.4 – Proposed amendment to section 407.4.1.4 has been withdrawn by OSHPD.

408.3 ~~Filters for Skilled Nursing Facilities, Intermediate Care Facilities, and Correctional Treatment Centers.~~ **Filters for Skilled Nursing Facilities, Intermediate Care Facilities, and Correctional Treatment Centers.**

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409.3 Insulation of Ducts. Cold air ducts shall be insulated wherever necessary or to prevent condensation problems.

Table 4-A – Proposed text “Permitted for [OSHPD 3SE]” has been withdrawn by OSHPD.

**TABLE 4-A
PRESSURE RELATIONSHIP AND VENTILATION REQUIREMENTS FOR GENERAL ACUTE CARE HOSPITALS, SKILLED NURSING FACILITIES, INTERMEDIATE CARE FACILITIES, CORRECTIONAL TREATMENT CENTERS, OUTPATIENT FACILITIES, AND LICENSED CLINICS**

A	B	C	D	E	F
AREA DESIGNATION	AIR BALANCE RELATIONSHIP TO ADJACENT AREAS ⁸	MINIMUM AIR CHANGES IF 100% O.S.A.	CONDITIONED AIR NOT 100% O.S.A.		ALL AIR EXHAUSTED DIRECTLY TO OUTDOORS
			MINIMUM AIR CHANGES OF OUTDOOR AIR PER HOUR	MINIMUM TOTAL AIR CHANGES PER HOUR	
...					
<i>Patient room</i>	NR	2	2	6	---
<u>Dialysis treatment room</u>	NR	6	2	6	---
<u>Dialyzer reprocessing room</u>	N	---	---	10	Yes
...					
<i>Bacteriology</i>	N	6	2	6	Yes
<u>Nuclear medicine</u>	N	6	2	6	Yes
<u>Nuclear medicine hot lab</u>	N	---	---	6	Yes
Negative pressure <u>Airborne infection isolation treatment/exam room</u> <i>Permitted for [OSHPD 3SE]</i>	N	12	2	12	Yes
...					
<i>Waiting area primary care clinic</i>	N	10	2	10	Yes ²
<u>Staff sleep rooms</u>	NR	2	2	4	---
<u>Morgues and autopsy rooms</u>	N	10	2	10	Yes
...					

P = Positive NR = No requirement for continuous directional control N = Negative

- 1 The pressure relationship of the entire emergency department shall be negative to other adjacent areas.
- 2 Air may be recirculated if a high-efficiency particulate air (HEPA) filter with a minimum efficiency of 99.97 percent or a minimum efficiency reporting value (MERV) of 17 is installed in the return air duct which serves the waiting area.

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Table 4-B – Proposed text “, and OSHPD 3SE facilities” has been withdrawn by OSHPD.

**TABLE 4-B
 FILTER EFFICIENCIES FOR CENTRAL VENTILATION AND AIR CONDITIONING SYSETMS IN
 GENERAL ACUTE CARE HOSPITALS, OUTPATIENT FACILITIES, AND LICENSED CLINICS.¹**

Administrative, med staff support areas, bulk storage, soiled holding areas, food preparation areas, public cafeterias, and laundries, and OSHPD 3SE facilities.	1	30%	-	-
		(8)	-	-

NOTATION:
 Authority: Health and Safety Code Sections 1226, 1275, 18928, 129790 and 129850; Government Code Section 11152.5
 Reference: Health and Safety Code Section 129850

**CHAPTER 5
 EXHAUST SYSTEMS**

Adopt entire 2012 Uniform Mechanical Code (UMC) Chapter and carry forward existing amendments of the 2010 California Mechanical Code (CMC) for OSHPD 1, 2, 3 & 4.

NOTATION:
 Authority: Health and Safety Code Sections 1226, 1275, 18928, 129790 and 129850; Government Code Section 11152.5
 Reference: Health and Safety Code Section 129850

**CHAPTER 6
 DUCT SYSTEMS**

Adopt entire 2012 Uniform Mechanical Code (UMC) Chapter and carry forward existing amendments of the 2010 California Mechanical Code (CMC) for OSHPD 1, 2, 3 & 4 with the following modifications.

Section 602.1 – Proposed amendment to section 602.1 has been withdrawn by OSHPD.

Section 602.3.1 – Proposed amendment to section 602.3.1 has been withdrawn by OSHPD.

605.0 Insulation of Ducts.

Supply-, return-air ducts and plenums of a heating or cooling system shall be insulated to achieve the minimum thermal (R) value as set forth in *Tables 6-6A and B*. ***[OSHPD 1, 2, 3 & 4]*** *Cold air ducts shall be insulated wherever necessary or to prevent condensation problems.*

NOTATION:
 Authority: Health and Safety Code Sections 1226, 1275, 18928, 129790 and 129850; Government Code Section 11152.5
 Reference: Health and Safety Code Section 129850

**CHAPTER 7
COMBUSTION AIR**

Adopt entire 2012 Uniform Mechanical Code (UMC) Chapter for OSHPD 1, 2, 3 & 4 without amendments.

NOTATION:

Authority: Health and Safety Code Sections 1226, 1275, 18928, 129790 and 129850; Government Code Section 11152.5

Reference: Health and Safety Code Section 129850

**CHAPTER 8
CHIMNEYS AND VENTS**

Adopt entire 2012 Uniform Mechanical Code (UMC) Chapter for OSHPD 1, 2, 3 & 4 without amendments.

NOTATION:

Authority: Health and Safety Code Sections 1226, 1275, 18928, 129790 and 129850; Government Code Section 11152.5

Reference: Health and Safety Code Section 129850

**CHAPTER 9
INSTALLATION OF SPECIFIC APPLIANCES**

Adopt entire 2012 Uniform Mechanical Code (UMC) Chapter and carry forward existing amendments of the 2010 California Mechanical Code (CMC) for OSHPD 1, 2, & 4. Adopt the entire chapter for OSHPD 3 without amendments.

NOTATION:

Authority: Health and Safety Code Sections 1226, 1275, 18928, 129790 and 129850; Government Code Section 11152.5

Reference: Health and Safety Code Section 129850

**CHAPTER 10
STEAM AND HOT WATER BOILERS**

Adopt entire 2012 Uniform Mechanical Code (UMC) Chapter for OSHPD 1, 2, 3 & 4 without amendments.

NOTATION:

Authority: Health and Safety Code Sections 1226, 1275, 18928, 129790 and 129850; Government Code Section 11152.5

Reference: Health and Safety Code Section 129850

**CHAPTER 11
REFRIGERATION**

Adopt entire 2012 Uniform Mechanical Code (UMC) Chapter and carry forward the existing amendments of the 2010 California Mechanical Code (CMC) for OSHPD 1, 2, 3 & 4.

NOTATION:

Authority: Health and Safety Code Sections 1226, 1275, 18928, 129790 and 129850; Government Code Section 11152.5

Reference: Health and Safety Code Section 129850

**CHAPTER 12
HYDRONICS**

Adopt entire 2012 Uniform Mechanical Code (UMC) Chapter and carry forward the existing amendment of the 2010 California Mechanical Code (CMC) for OSHPD 1, 2, & 4. Adopt the entire chapter for OSHPD 3 without amendments.

NOTATION:

Authority: Health and Safety Code Sections 1226, 1275, 18928, 129790 and 129850; Government Code Section 11152.5

Reference: Health and Safety Code Section 129850

**CHAPTER 13
FUEL GAS PIPING**

Adopt entire 2012 Uniform Mechanical Code (UMC) Chapter for OSHPD 1, 2, 3 & 4 without amendments.

NOTATION:

Authority: Health and Safety Code Sections 1226, 1275, 18928, 129790 and 129850; Government Code Section 11152.5

Reference: Health and Safety Code Section 129850

**CHAPTER 14
PROCESS PIPING**

Adopt entire 2012 Uniform Mechanical Code (UMC) Chapter for OSHPD 1, 2, 3 & 4 without amendments.

NOTATION:

Authority: Health and Safety Code Sections 1226, 1275, 18928, 129790 and 129850; Government Code Section 11152.5

Reference: Health and Safety Code Section 129850

**CHAPTER 15
SOLAR SYSTEMS**

Chapter is not adopted for OSHPD 1, 2, 3 & 4.

NOTATION:

Authority: Health and Safety Code Sections 1226, 1275, 18928, 129790 and 129850; Government Code Section 11152.5

Reference: Health and Safety Code Section 129850

**CHAPTER 16
STATIONARY FUEL CELL POWER PLANTS**

Chapter is not adopted for OSHPD 1, 2, 3 & 4.

NOTATION:

Authority: Health and Safety Code Sections 1226, 1275, 18928, 129790 and 129850; Government Code Section 11152.5

Reference: Health and Safety Code Section 129850

**CHAPTER 17
STANDARDS**

Adopt entire 2012 Uniform Mechanical Code (UMC) Chapter and carry forward the existing amendments of the 2010 California Mechanical Code (CMC) for OSHPD 1, 2, 3 & 4.

NOTATION:

Authority: Health and Safety Code Sections 1226, 1275, 18928, 129790 and 129850; Government Code Section 11152.5

Reference: Health and Safety Code Section 129850

**APPENDIX A
UMC STANDARDS NO. 6-2**

OSHPD is not adopting Appendix A, 2012 Uniform Mechanical Code (UMC) Standards No. 6-2 for OSHPD 1, 2, 3 & 4.

NOTATION:

Authority: Health and Safety Code Sections 1226, 1275, 18928, 129790 and 129850; Government Code Section 11152.5

Reference: Health and Safety Code Section 129850

**APPENDIX B
PROCEDURES TO BE FOLLOWED TO PLACE GAS EQUIPMENT IN OPERATION**

Adopt entire 2012 Uniform Mechanical Code (UMC) Appendix for OSHPD 1, 2, 3 & 4 without amendments.

NOTATION:

Authority: Health and Safety Code Sections 1226, 1275, 18928, 129790 and 129850; Government Code Section 11152.5

Reference: Health and Safety Code Section 129850

**APPENDIX C
INSTALLATION AND TESTING OF OIL (LIQUID) FUEL-FIRED EQUIPMENT**

Adopt entire 2012 Uniform Mechanical Code (UMC) Appendix for OSHPD 1, 2, 3 & 4 without amendments.

NOTATION:

Authority: Health and Safety Code Sections 1226, 1275, 18928, 129790 and 129850; Government Code Section 11152.5

Reference: Health and Safety Code Section 129850

**APPENDIX D
UNIT CONVERSION TABLES**

Adopt entire 2012 Uniform Mechanical Code (UMC) Appendix for OSHPD 1, 2, 3 & 4 without amendments.

NOTATION:

Authority: Health and Safety Code Sections 1226, 1275, 18928, 129790 and 129850; Government Code Section 11152.5

Reference: Health and Safety Code Section 129850