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517.32 Branches Requiring Automatic Connection.

(A) Life Safety and Critical Branch Used in a Type 1 EES.

Those functions of patient care depending on lighting or appliances that are connected to the essential electrical system shall be divided into the life safety branch and the critical branch, as described in 517.33 and 517.34.

[OSHPD 1, 2, 3, 4, & 5] The life safety and critical branches shall be installed and connected to the alternate power source specified in 517.30(A) and (B) so that all functions specified herein for the life safety and critical branches are automatically restored to operation within 10 seconds after interruption of the normal source.





Repeal Requirement for UPS Systems for Telecommunications and Data Technology Equipment to be Powered by Equipment Branch

517.35 Equipment Branch Connection to Alternate Power Source. (A) Equipment for Delayed Automatic Connection.

(10) [OSHPD 1, 2, 3, 4 & 5] Where provided, UPS systems serving telephone, data, technology and telecommunications equipment rooms and closets.

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Restrict Raceways and Cables Not Related to Technology and Telecommunication Rooms from Being Installed or Passing Through these Rooms

517.124 [OSHPD 1, 4 & 5] Technology and Telecommunications

Rooms. Where technology or telecommunications rooms are provided in accordance with Section 1224.5 of the California Building Code, the following requirements shall apply:

(A) General. Electrical equipment, <u>raceways</u>, <u>and cables</u> that is <u>are</u> not directly related to the support of the room shall not be installed in or pass through the room. Non-lighting circuits serving each room shall be dedicated to that room.

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Remove OSHPD 1R and Add OSHPD 5 to Periodically Emergency System Testing

700.3 Tests and Maintenance.

(B) Tested Periodically. Systems shall be tested periodically on a schedule approved by the authority having jurisdiction to ensure the systems are maintained in proper operating condition. [OSHPD 1, 1R, and, 2, & 5] The authority having jurisdiction is Department of Public Health, Licensing and Certification.

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Add Minimum Energy Storage Requirements for Battery System **700.12(C) Storage Battery.** Storage batteries shall be of suitable rating and capacity to supply and maintain the total load for a minimum period of 11/2 hours, without the voltage applied to the load falling below 871/2 percent of normal. Automotive-type batteries shall not be used. An automatic battery charging means shall be provided. <u>Exception: [OSHPD 1, 2, 3, 4 & 5] Battery system used as an alternate power</u> source for Type 1 essential electrical system shall be of suitable rating and

source for Type 1 essential electrical system shall be of suitable rating and capacity to supply and maintain the full-demand load for the time durations specified in 700.12(D)(2)(a).





Emergency generator fuel. [Hospitals, CAHs and LTC facilities] that maintain an onsite fuel source to power emergency generators must have a plan for how it will keep emergency power systems operational during the emergency, unless it evacuates.







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	TABLE 4-A (continued) PRESSURE RELATIONSHIP AND VENTILATION REQUIREMENTS FOR GENERAL ACUTE CARE HOSPITALS, SKILLED NURSING FACILITIES, INTERMEDIATE CARE FACILITIES, CORRECTIONAL TREATMENT CENTERS, OUTPATIENT FACILITIES, AND LICENSED CLINICS						
Function or Space	Pressure Relationship to Adjacent Areas (f) (n)	Minimum Outdoor ach	Minimum Total ach	All Room Air Exhausted Directly to Outdoors (j)	Air Recirculated by Means of Room Units (a)	Design Relative Humidity (k), %	Design Temperature (I),oF/oC
Gamma Camera	NR	2	6	NR	No	NR	NR
Nuclear medicine (Gamma, PET, SPECT)	Negative	2	6	Yes	No	NR	NR





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Replace Missing Exception

1304.1.2 [OSHPD 1, 1R, 2, 3, 4 & 5] A medical gas source system shall not be located in an OSHPD 1R or OSHPD 3 building. OSHPD 1R buildings shall be served by an individual main supply line separate from other OSHPD buildings, with a main line valve as per NFPA 99. [NFPA 99:5.1.4.2.1, 5.1.4.2.2, 5.1.4.3.1, 5.1.4.3.2] Valves shall be readily accessible and clearly labeled.

Exception: A medical gas source system serving only an OSHPD 1R or 3 building may be located within it.

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Added Re	eference Standard for D	ialysis		
TABLE 1701.1 REFERENCED STANDARDS				
STANDARD NUMBER	STANDARD TITLE	APPLICATION	REFERENCED SECTIONS	
<u>ANSI/AAMI RD62</u>	Water Treatment Equipment for Hemodialysis Applications	<u>Miscellaneous</u>	Section 614.7	
ASME A112.1.2-2012	Air Gaps in Plumbing Systems (For Plumbing Fixtures and Water-Connected Receptors)	Fittings	Table 603.2	
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			TABLE 1613.2. VALUES OF	3(1) [OSHPD SITE COEFFIC				
	SITE CLASS	MAPPED RISK TARGETED MAXIMUM CONSIDERED EARTHQUAKE (MCE.) SPECTRAL RESPONSE ACCELERATION PARAMETER AT SHORT PERIOD						
		<i>S</i> ≤0.25	S_= 0.50	S ₄ = 0.75	<i>S</i> _x = 1.00	S _x = 1.25	$S_x \ge 1.5$	
	A	0.8	0.8	0.8	0.8	0.8	0.8	
	В	0.9	0.9	0.9	0.9	0.9	0.9	
	С	1.3	1.3	1.2	1.2	1.2	1.2	
	D	1.6	1.4	1.2	1.1	1.0	1.0	
	E	2.4 Note b	1.7 Note b	1.3 Note b	Note b Note b	Note b <u>1.2</u> e Note b	Note b Note b	r -
pe b. Va <i>c. <u>Se</u> sh</i>	riod, Ss. lues shall be de <u>e requirements</u> all only be used	etermined s for site-sp d for calcul	n accordar becific grou ation of T _s ,	nce with s ind motion determin	Section 11. <u>ns in Sectio</u> ation of Se	4.8 of ASC on 11.4.8 o	E 7. <u>f ASCE 7.</u> gn Categor	These values or These values or These values or Section 11.4.8

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Structural, Electrical, Mechanical, Plumbing, and Existing Building Codes

Chapter 16A STRUCTURAL DESIGN

<u>1617A.1.5 ASCE 7, Section 12.2.3, 12.2.3.1, and 12.2.3.2. Modify ASCE 7, Sections 12.2.3, 12.2.3.1, and 12.2.3.2 as follows:</u>

1617A.1.5.1 ASCE 7, Section 12.2.3. Replace ASCE 7, Section 12.2.3 with the following:

Where different seismic force-resisting systems are used in combinations to resist seismic forces in the same direction, other than those combinations considered as dual systems the design shall comply with the requirements of this section. The most stringent applicable structural system limitations contained in Table 12.2-1 shall apply, except as otherwise permitted by this section.

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Structural, Electrical, Mechanical, Plumbing, and Existing Building Codes











Structural, Electrical, Mechanical, Plumbing, and Existing Building Codes







Chapter 21 & 21A - MASONRY

• 2103.4 Metal reinforcement and accessories. Metal reinforcement and accessories shall conform to Article 2.4 of TMS 602. Where unidentified reinforcement [OSHPD 1R, 2 & 5], or bar reinforcement without mill certification, is approved for use, not less than three tension and three bending tests shall be made on representative specimens of the reinforcement from each shipment and grade of reinforcing steel proposed for use in the work. [OSHPD 1R, 2 & 5] Alternatively, the frequency of sampling for unidentifiable reinforcing bars specified in Section 1910.2 can be used.

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<u>2108.4 [OSHPD 1R, 2 & 5] TMS 402, Section 9.1.9.1.1. Modify TMS</u> 402, Section 9.1.9.1.1 as follows:

9.1.9.1.1 Masonry Compressive Strength. The specified compressive strength of <u>structural</u> masonry, f'_m, shall be equal to or exceed 1,500 psi (10.34 MPa). The value of f'_m used to determine nominal strength values in this chapter shall not exceed 4,000 (41.37 MPa) (Relocated from Section 2105.2) 3,000 psi (20.7 MPa) for concrete masonry and shall not exceed 6000-4,500 psi (41.37 <u>31.03</u> MPa) for clay masonry.



Questions Part 2, Volume 2



2022 California Existing Building Code Part 10

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International Code Council renumbered much of Part 10 which affected a lot of HCAI code. Much renumbering occurred along with pointer corrections. We are not going to include that as part of this presentation but do want you to be aware of it.

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SECTION 304A

30<u>4</u>3A.3.5.9 ASCE 41 Section <u>8.5.1-8.4.2.3.2.1</u> Modify ASCE 41 Section <u>8.5.1-8.4.2.3.2.1</u> with the following <u>as follows</u>:

8.4.2.3.2.1 Foundation Modeled as a Fixed Base If the base of the structure is assumed to be completely rigid, the foundation soil shall be classified as deformation controlled. Component actions shall be determined by Eq. (7-34). Acceptance criteria shall be based on Eq. (7-36), m-factors for foundation soil shall be 1.5 for Immediate Occupancy, 3.0 for Life Safety, and 4.0 for Collapse Prevention, and the use of upper-bound component capacities shall be permitted. Where overturning results in an axial uplift force demand from linear analysis, this uplift shall be considered deformation controlled, and an m-factor of 1.5 for Immediate Occupancy, 3.0 for Life Safety, and 4.0 for Collapse Prevention applied to the expected restoring dead load shall be used.



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SECTION 304A

8.4.2.3.2.2 Foundation Interface Modeled as a Flexible Base Where the foundation flexibility is included in the mathematical model and is modeled using linear elastic foundation soil representation, the foundation soil shall be classified as deformation-controlled. Component actions shall be determined by Eq. (7-34). For rectangular or I-shaped footings, acceptability of foundation overturning shall be based on the m-factors in Table 8-3. Where global overturning results in an uplift force on the foundation, the expected dead load action on that portion of the foundation being uplifted shall be multiplied by the appropriate m-factor from Table 8-3 and shall be greater than the absolute axial tension demand on the foundation.

The m-factors in Table 8-3 depend on A_c/A_f , b/L_c , and the missing area ratio $(A_{rect} - A_f)/A_{rect}$, where A_c is defined in Section 8.4.2.3.1. The idealized footing configurations and corresponding parameters are defined in Fig. 8-3. The parameter b is defined as the width of rectangular footings and the flange width of I-shaped footings. The parameter L_c is defined as the length of the contact area and equal to A_c/b . The extent of the I-shape shall be quantified by the missing area ratio. For I-shaped footings, the parameter A_{rect} is equal to the area of the smallest rectangle that covers the footing footprint, and A_f is the actual footing area.



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SECTION 304A

3043A.3.5.4412 ASCE 41 Section 10.7.1.1. Modify ASCE 41 Section 10.7.1.1 with the following:

304A.3.5.13 ASCE 41 Section 10.12.3 Modify ASCE 41 Section 10.12.3 as follows:

10.12.3 Evaluation of Existing Condition Allowable soil capacities (subgrade modulus, bearing pressure, and passive pressure) and foundation displacements for the selected performance level shall be as prescribed in Chapter 8 or as established with project specific data. All components of existing foundation systems and all new material, components, or components required for retrofit shall be evaluated as force-controlled actions. However, the capacity of the foundation components need not exceed 1.25 times the capacity of the supported vertical structural component or element (column or wall).

Exception: Component actions that are deformation controlled are permitted to use their expected strengths for the acceptance criteria.

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