



CBSC 2019

+ Reference Standards

Part 2 – Chapter 2 Definitions

EQUIPMENT (Relocated from the California Administrative Code, Chapter 7, Article 2) **[OSHPD 1, 1R, 2, 4 & 5]**. *Equipment as used in this part and all applicable parts of the California Building Standards Code shall be classified as building service equipment, fixed equipment, mobile or movable equipment.*

(1) **FIXED EQUIPMENT** *includes items that are permanently affixed...*

(2) **MOVABLE EQUIPMENT** *means equipment, with or without wheels or rollers, that typically remains in one fixed location during its service life or use...*

(3) **MOBILE EQUIPMENT** *means equipment, with or without wheels or rollers, that is typically used in a different location than where it is stored and moved from one location in the structure to another during ordinary use...*



And Don't Forget.....



PIN 68 – Support and Attachment Requirements for Fixed, Interim, Mobile, Movable, Other and Temporary Equipment

Effective Date: 3/04/2020

Part 2 – Chapter 2 Definitions

REMOVED FROM ACUTE CARE SERVICE [OSHPD 1R]. Buildings that previously provided basic and/or supplemental services, as defined in Section 1224.3 that have been removed from acute care service in compliance with Part 10 California Existing Building Code Chapter 3A through a project approved by OSHPD, and remain under the jurisdiction of OSHPD.

You forgot the OSHPD Classification?

Hospitals [OSHPD 1]

General acute care hospitals buildings [OSHPD 1R]

Skilled Nursing Facilities [OSHPD 2]

Clinics [OSHPD 3]

Correctional Treatment Centers [OSHPD 4]

Acute psychiatric hospital buildings [OSHPD 5]

Part 2 – Chapter 10 Means of Egress

1003.1.1 Means of egress for hospitals. [OSHPD 1] In addition to the requirements of this chapter, means of egress for hospitals shall comply with Part 10 California Existing Building Code Section 308A.

1003.1.2 Means of egress for hospital buildings removed from acute care service, skilled nursing facilities, intermediate care facilities and acute psychiatric hospitals. [OSHPD 1R, 2 & 5] In addition to the requirements of this chapter, means of egress for hospital buildings removed from acute care service, skilled nursing facilities, intermediate care facilities and acute psychiatric hospitals shall comply with OSHPD amendments to Part 10 California Existing Building Code Section 308.

11B-247 *Detectable warnings and detectable directional texture*

11B-247.1 *Detectable warnings.*

11B-247.1.1 *General.* Detectable warnings shall be provided in accordance with Section 11B-247.1 and shall comply with Section 11B-705.1.

11B-247.1.2 *Where required.* Detectable warnings shall be provided where required by Section 11B-247.1.2.

11B-247.1.2.1 *Platform edges.* Platform boarding edges shall have detectable warnings complying with Sections 11B-705.1.1 and 11B-705.1.2.1.

11B-247.1.2.2 *Curb ramps.* Curb ramps shall have detectable warnings complying with Sections 11B-705.1.1 and 11B-705.1.2.2.

11B-247.1.2.3 *Islands or cut-through medians.* Islands or cut-through medians shall have detectable warnings complying with Sections 11B-705.1.1 and 11B-705.1.2.3.

11B-247.1.2.4 *Bus stops.* Where detectable warnings are provided at bus stop boarding and alighting areas in compliance with Section 11B-810.2.3, detectable warnings shall comply with Sections 11B-705.1.1 and 11B-705.1.2.4.

11B-247.1.2.5 *Hazardous vehicular areas.* If a walk crosses or adjoins a vehicular way, and the walking surfaces are not separated by curbs, railings or other elements between the pedestrian areas and vehicular areas, the boundary between the areas shall be defined by a continuous detectable warning complying with Sections 11B-705.1.1 and 11B-705.1.2.5.

11B-247.1.2.6 *Reflecting pools.* The edges of reflecting pools shall be protected by railings, walls, warning curbs or detectable warnings complying with Sections 11B-705.1.1 and 11B-705.1.2.6.

11B-247.1.2.7 *Track crossings.* Where it is necessary to cross tracks to reach transit boarding platforms, detectable warnings complying with Sections 11B-705.1.1 and 11B-705.1.2.7 shall be provided.

Where are detectable warnings required?



Where the pedestrian path crosses a hazardous vehicular area

Distance from finish floor to tops of tray slides.....?

11B-904.5 Food service lines. Counters in food service lines shall comply with *Section 11B-904.5*.

11B-904.5.1 Self-service shelves and dispensing devices. Self-service shelves and dispensing devices for tableware, dishware, condiments, food and beverages shall comply with *Section 11B-308*.

11B-904.5.2 Tray slides. The tops of tray slides shall be 28 inches (711 mm) minimum and 34 inches (864 mm) maximum above the finish floor or ground.



Between 28" and 34"

Part 2 – Chapter 12 Means of Egress

1224.4.1.2 Means of egress.

[OSHDP 1] *Means of egress shall comply with Part 10, California Existing Building Code, Section 308A.*

[OSHDP 1R] *Means of egress shall only pass through structures that are under the jurisdiction of the Office of Statewide Health Planning and Development (OSHDP).*

1224.4.1.1 Services/systems and utilities.

[OSHDP 1] Services/systems and utilities shall comply with California Existing Building Code Section 307A.

[OSHDP 1R] Services/systems and utilities shall only originate in, pass through or under structures which are under the jurisdiction of the Office of Statewide Health Planning and Development (OSHDP).

Part 2 – Chapter 12 General Items

SERVICE SPACE. *Service Space refers to the **distinct area** of a health facility where a **licensed** Basic Service or Supplemental Service is provided.*

*The Service Space shall include all the functional area requirements required to deliver the specific Service. **Basic Service Spaces** are identified in Sections 1224.14 through 1224.27. **Supplemental Service Spaces** are identified in Section 1224.28 through 1224.41. Similar distinctions are made between Basic and Supplemental or **Optional Services** in Section 1225 through Section 1228. Required functional areas may be a portion of a larger space, one or more Patient Care Locations, support areas or separate Rooms as defined in Section 1224.3. See departmental boundary requirements under Section 1224.4.4.7.6.*

Part 2 – Chapter 12 General Items

- Further clarification of “**Departmental Boundaries**”, location of identifiable spaces for each of the required functional areas within the department
- Update of acceptable **Sound Transmission (STC) Ratings (per FGI)**
 - Minor drop in ratings at patient rooms (STC 60 now max vs. 65)
 - Minor increase at exam rooms (HIPA)
 - Added MRI room ratings
- Clarification of **Medication Station locations/observation**

1224.4.4.4.2 Self-contained medication dispensing unit. *If provided, a self-contained medicine dispensing unit shall be located at the nurses’ station, in the clean utility room, or in an ~~alcove~~. area where access to the self-contained medication dispensing unit is under the monitoring and control of nursing staff. Self-contained medication dispensing units shall be provided with essential power and lighting.*

Restructured Nurse Call Table:

(Replace existing Table 1224.4.6.5 and footnotes with the following re-formatted table)

TABLE 1224.4.6.5
[OSHDP 1, 1R, 2, 3, 4 & 5] LOCATION OF NURSE CALL DEVICES
 • = Required

AREA DESIGNATION	STATION TYPE	1224	1225	1226	1227	1228
Nursing Units						
Patient toilet room	B	•	•		•	
Patient bathing	B	•	•		•	
Special bathing	E	•				
Patient bed (nursing service)	P,E,C	•			•	
Patient bed (intensive care)	P,E,C	•			•	
Patient bed (LDR/LDRP)	P,E,C	•			•	
Patient bed (Dementia Unit)	P	•	•		•	
Patient bed (SNF/ICF)	P	•	•		•	
NICU	E,C	•			•	
Nursery	E,C	•			•	
Support Areas						
Nurse/control station	M	•	•	•	•	•
Medication preparation room	D	•			•	
Soiled workroom /utility/holding	D	•			•	

Part 2 – 1224 Nursing Support Space

Required vs. shared Support Areas for Nursing Service

➤ **Required in each Nursing Unit**

- Administrative area / Nurse Station
- Nurse/Supervisor Office
- Separate Clean and Soiled Utility Rooms, Clean linen storage
- Medication Station
- Equipment & Emergency Storage, gurneys & wheelchairs
- Nourishment area & Ice Machine

➤ **Shared between Nursing Units**

- Staff toilet rooms
- Housekeeping rooms
- Special bathing facilities

➤ **Optional or may be shared with other service spaces**

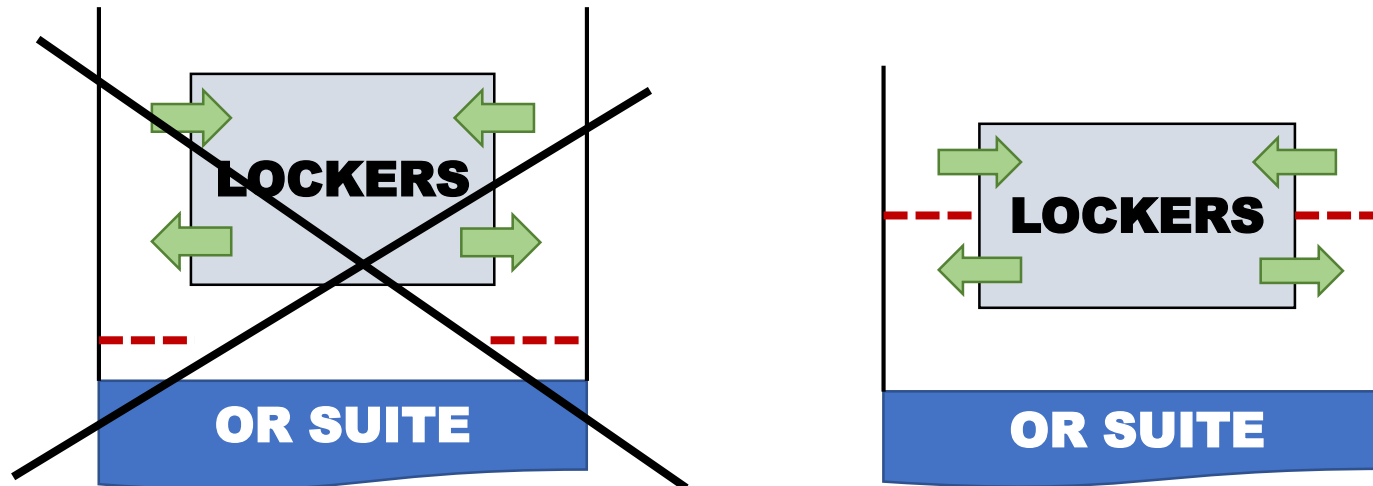
- Exam &/or treatment rooms are optional
- Multipurpose rooms may be shared with other departments

Part 2 - Surgical Service Space

Staff Clothing Change Areas

Arranged to ensure a traffic pattern so that personnel can:

- ✓ Enter the staff change area from non-restricted space
- ✓ Change their attire
- ✓ Move directly into the semi-restricted surgical service corridor



Part 2 - Surgical Service Space

1224.15.3.11 Staff clothing change areas. *Appropriate areas shall be provided for male and female ~~personnel (orderlies, technicians, nurses and doctors)~~ staff working within the surgical service space. The areas shall contain lockers, showers, toilets, ~~lavatories equipped for handwashing~~ stations, and space for donning surgical attire. These areas shall be arranged to ~~encourage~~ ensure a ~~one-way~~ traffic pattern so that personnel entering from unrestricted area outside the surgical service space ~~can enter~~, change their clothing, and move directly into the surgical service space semi-restricted corridor.*

- **1224.17.2 Laboratory work areas.** *The following laboratory work areas shall be provided:*
 - **1224.17.2.1 Laboratory workstation(s).** *Space shall be provided to accommodate equipment used and, at minimum, shall include...*
 - **1224.17.2.2 Handwashing station(s).**
 - **1224.17.2.3 Refrigerated storage facilities.** *Refrigerated blood storage facilities for...*
 - **1224.17.2.4 Storage facilities**
 - **1224.17.2.5 Terminal sterilization.**
 - **Exception:** *Terminal sterilization facilities are not required when it can be demonstrated to the licensing agency that transport and terminal sterilization can be effectively contracted to an independent medical waste treatment facility.*
 - **1224.17.2.6 Radioactive material handling.** *If radioactive materials are employed...*

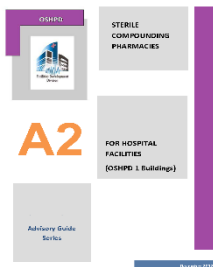


- **1224.17.3 Specimen Collection Facilities**
 - **1224.17.3.1 General.** Space shall be provided for specimen collection. Facilities for this function shall be located outside the laboratory work area.
 - **1224.17.3.2 Facility requirements.** At a minimum...
- **1224.17.4 Administrative areas.** Office(s) and space for clerical work, filing, and record maintenance and storage shall be provided.



Section 1224.19 Pharmaceutical Service Space

➤ Reference Materials



<797> & <800>

16 Pharmacy Sections 1735 and 1751

- Veterans Affairs Standards
- Facility Guidelines Institute
- Industry Partners

➤ Collaboration with CDPH and Board of Pharmacy



Part 2 – Pharmacy

- **Dispensing Facilities** (required for all Hospital Pharmacies)
 - **Receiving/breakout/inventory**
 - Size based on Functional Program w/ 120 sq. ft. minimum
 - **Dispensing**
 - Work counters/Space for manual or automated dispensing
 - Size for volume of doses per day for in-patients & outpatients
- **Non-sterile compounding**
 - Work stations
 - Handwashing Fixture
 - Utility sink
- **Recording** – counter and electronic workstations
- **Storage**
 - Temporary, Bulk, Active
 - Refrigerated, Secured, etc.

- **Non-Hazardous Sterile compounding** (if provided)
 - **Workstation** – vented biological safety cabinets, CAIs, etc.
 - **Buffer room** (Clean room)
 - 120 square feet + 75 s.f. for each additional work station
 - Sealed tight, positive pressure, laminar flow, low level return
 - Semi-restricted finishes
 - **Ante-Room** (may be common with Hazardous Drug Compounding Clean Room)
 - 120 square feet
 - Sealed tight, negative pressure relative to Buffer room
 - Scrub sink, eyewash station, dedicated housekeeping
 - Semi-restricted finishes
 - **Segregated Compounding Area** (when provided) comply with Section 1250.

- **Hazardous Drug Sterile compounding** (if provided)
 - **Workstation** – vented biological safety cabinets, etc.
 - **Buffer room** (Clean room)
 - 130 square feet + 75 s.f. for each additional work station
 - Sealed tight, negative pressure, laminar flow, low level return
 - Doffing area, Refrigerator, Semi-restricted finishes
 - **Ante-Room** (may be common with Non-Hazardous Compounding Clean Room)
 - 120 square feet
 - Sealed tight, negative pressure relative to Buffer room
 - Scrub sink, eyewash station, dedicated housekeeping
 - Semi-restricted finishes
 - **Segregated Compounding Area** (when provided) comply with Section 1250.

Part 2 – Pharmacy

➤ **Support Areas** for the Pharmacy

- **Access to information**
 - Patient information
 - Pharmacopeia information
- **Office** for Chief Pharmacist
- **Multipurpose room** may be shared with other departments
- **Outpatient consultation** area, if provided
- **Staff toilet rooms and lockers**
- **Additional equipment & supplies**

- **Optional Alternate for Hospitals with less than 100 beds**
 - **Drug Room Permit** in lieu of Hospital Pharmacy
 - Receiving/breakout/inventory
 - Handwashing station
 - Storage – bulk, refrigerated, secured, etc.

Part 2 – Dietetic Service Space

- **1224.20 DIETETIC SERVICE SPACE**

-

- **1224.20.1 General.** Food and nutrition facilities shall be provided to support food services provided for staff, visitors, and patients. Adequate space for the preparation and serving of food shall be provided. Equipment shall be placed so as to provide aisles of sufficient width to permit easy movement of personnel, mobile equipment, and supplies. Food service facilities and equipment shall conform to these standards, the standards of the National Sanitation Foundation, and the requirements of the local public health agency.



- **1224.20.2 Functional elements. ...**

*** Also see 1224.29.2.10 for Infant Formula requirements**

Senate Bill 1076 (*Health and Safety Code section 1253.7*)

Defines **“observation services”** as *“outpatient services... to those patient who have unstable or uncertain conditions potentially serious enough to warrant close observation, but not so serious as to warrant inpatient admission to the hospital.”*

New Code Section 1224.39.6

Analysis - Patient Station:

	1988 - 2001 CBC (effective thru 12/31/2006)	2016 CBC
Nursing Unit		
Single Patient Room	110 sf (3 feet clear @ sides and foot of bed)	120 sf (3 feet clear @ sides and foot of bed)
Mullti-Patient Room	80 sf / bed (3 feet clear between	100 sf / bed (3 feet clear between

Part 2 – Outpatient Observation Units

➤ Location

- **Must be** located in a *conforming*, or *non-conforming*, **hospital building**
- **May be** located in a hospital **building removed from acute-care service**

➤ Connection to Hospital Services

- **Corridor systems shall connect the unit to all Basic and Supplemental Services**
- **Patient access** to the unit shall not pass through public lobbies, waiting areas, other departments, or inpatient units

➤ Support Spaces for Outpatient Services

- **Waiting Room**
- Access to **Public Toilets**
- Access to **Telephone & Drinking Fountain**

Part 2 – 1225 [OSHPD 2]

Section 1225 Skilled Nursing Facilities and Intermediate Care Facilities [OSHPD 2]

- **Means of egress** required to only pass through building under OSHPD jurisdiction.
- **Multi-story and/or higher Construction Types** are no longer considered [OSHPD 1] for structural considerations or for “Existing Structures”
- State **Chapter 34A “Existing Structures” is repealed**
- Section 1225.2.2 **egress requirements** now expanded to include multi-story SNFs previously considered [OSHPD 1] and previously addressed in *Chapter 34A*

- **1225.1.2 Subacute care.** *Patient rooms providing subacute care shall comply with Section 1225.5.1.2. Equipment and components supporting subacute bed(s) shall have special seismic certification per Section 1705. Electrical requirements shall comply with California Electrical Code Article 517.*
- **Note:** (Relocated from Section 1705.13.3.1) *Construction documents for OSHPD 2 buildings **without** subacute beds shall explicitly state that the skilled nursing facility or intermediate care facility does not admit patients needing **sustained electrical life support equipment***



- **1225.2.1 Services/systems and utilities.** *Services/systems and utilities shall only originate in, pass through or under structures which are under the jurisdiction of the Office of Statewide Health Planning and Development (OSHDPD).*
- **1225.2.2 Means of egress.** *Means of egress shall only pass through structures that are under the jurisdiction of the Office of Statewide Health Planning and Development (OSHDPD).*



CMS 2-Bed Requirement – Impact to subacute conversions



eCFR — Code of Federal Regulations

Title 42 → Chapter IV → Subchapter G → Part 483 → Subpart B → §483.90

Title 42: Public Health

PART 483—REQUIREMENTS FOR STATES AND LONG TERM CARE FACILITIES

Subpart B—Requirements for Long Term Care Facilities

(2) Maintain all essential mechanical, electrical, and patient care equipment in safe operating condition.

(e) *Resident rooms.* Resident rooms must be designed and equipped for adequate nursing care, comfort, and privacy of residents.

(1) Bedrooms must—

(i) Accommodate no more than four residents. For facilities that receive approval of construction or reconstruction plans by State and local authorities or are newly certified after November 28, 2016, bedrooms must accommodate no more than two residents.

New construction or newly certified after November 28, 2018 = maximum of 2 beds/room

Part 2 – 1228 [OSHDPD 5]

Section 1228 Acute-Psychiatric Hospitals [OSHDPD 5]

- ❑ **Clarification of Application** – Application of former [OSHDPD 1] amendments that are applicable to Acute Psychiatric Hospitals as [OSHDPD 5]
- **Requirements were previously introduced in the 2018 Supplement to the 2016 CBC** (effective date – July 1, 2018)
 - Tailored hospital requirements specifically for acute psychiatric hospitals where they differ from general acute-care hospitals
 - Common elements shared with general acute-care hospitals still located in 1224.4 with references from 1228.4, etc.
 - Acute Psychiatric Basic Services (per H&S Code 71000)
No “general acute-care services” are included

- **1228.4.1 Services/systems and utilities.** *Services/systems and utilities shall only originate in, pass through or under structures which are under the jurisdiction of the Office of Statewide Health Planning and Development (OSHDPD).*
- **1228.4.2 Means of egress.** *Means of egress shall only pass through structures that are under the jurisdiction of the Office of Statewide Health Planning and Development (OSHDPD).*



*** Also see special requirements for locked units (I-2 with restraint)**

Section 1226 Clinics [OSHDP 3]

□ Clarification of Application

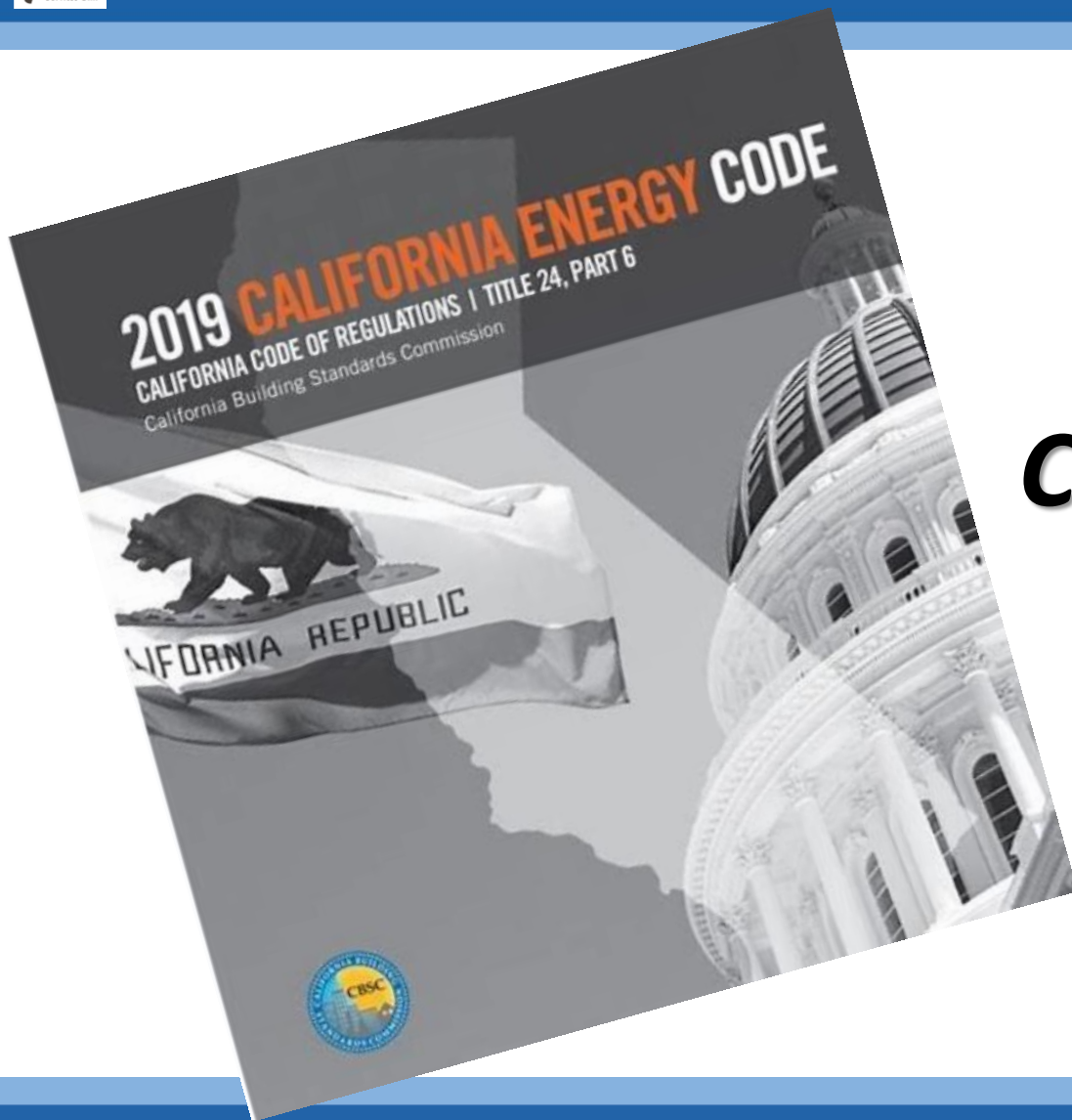
- **Clinics licensed under H&S Code *Section 1200***
 - Primary Care Clinics
 - Specialty Clinics
 - Surgical Clinics
 - Chronic Dialysis Clinics
 - Alternative Birthing Clinics (ABCs)
 - Rehabilitation Clinics
 - Psychology Clinics
- Also, **Outpatient Clinical Services of a Hospital provided in a freestanding building under H&S Code *Section 1250***

1226.4.3.5 Contiguous functions. Basic services of a single licensed clinic may be located in **separate suites**. Each clinic suite shall be **contiguous** and include internal circulation to access each of the required functions identified for that specific basic service.

Exceptions:

1. Various functions including, but not limited to **reception, waiting, staff support areas such as toilets, storage, and lounge** may located outside of the clinic suite with approval from the California Department of Public Health.
2. If **toilets and drinking fountain(s) serving the public** are provided as part of the overall building features, they need not be provided within the clinic suite.
3. **Shared services.** Space for general storage, laundry, housekeeping and waste management may be shared with other tenants.





Part 6

California Energy Code



Chapter 7, Article 1 General

7-103. Jurisdiction. The following are within the jurisdiction of Office of Statewide Health Planning and Development:

...

(c) For hospital buildings, skilled nursing facilities and intermediate care facilities, the Office shall also **enforce the regulations** of the California Building Standards Code as adopted by **the California Energy Commission**, the Office of the State Fire Marshal and the Division of the State Architect/Access Compliance Section, for **Energy Conservation**, fire and life safety and accessibility compliance for persons with disabilities, respectively.

OSHDP Systems

Plan Review:

- ✓ Exterior Assemblies & Detailing
- ✓ Electrical Lighting Design & Specifications
- ✓ Mechanical Systems Design & Specifications
- ✓ Energy Code Modeling

Construction:

- ✓ Continuous Inspection & Observation
- ✓ Verified Reports
- ✓ Commissioning & Occupancy

CHAPTER 10

ADMINISTRATIVE REGULATIONS FOR THE CALIFORNIA ENERGY COMMISSION (CEC)

ARTICLE 1 ENERGY BUILDING REGULATIONS

10-101. Scope.

(a) This article contains administrative regulations relating to the energy building regulations in Title 24, Part 6. This article applies to all residential and nonresidential buildings.

(b) Nothing in this article lessens any necessary qualifications or responsibilities of licensed or registered building professionals or other designers or builders, or the duties of enforcement agencies, that exist under state or local law.

(c) If any provision of the regulations in this article or the Building Energy Efficiency Standards, Title 24, Part 6, of the California Code of Regulations is found invalid by a court of competent jurisdiction, the remainder of these regulations shall remain in effect.

Authority: Sections 25402 and 25402.1, Public Resources Code.

Reference: Sections 25402 and 25402.1, Public Resources Code.

HISTORY:

1. New Article 1 (Section 1401) filed 5-3-76; effective thirtieth day thereafter (Register 76, No. 19).
2. Amendment filed 8-17-77; designated effective 3-11-78 (Register 77, No. 34).
3. Repealer of Article 1 (Section 1401) and new Article 1 (Sections 1401-1408, not consecutive) filed 12-9-81; designated effective 7-1-82 (Register 81, No. 50).
4. Amendment filed 12-27-84; designated effective 1-1-85 pursuant to Government Code Section 11346.2 (d) (Register 84, No. 52).

10-102. Definitions. In this article the following definitions apply:

ACCEPTANCE REQUIREMENTS are "acceptance requirements for code compliance" as defined in Section 1400.14(b) of Part 6.

ACCEPTANCE TEST TECHNICIAN (ATT) is a Field Technician as defined in Section 10-102 who is certified by an authorized Acceptance Test Technician Certification Provider to perform acceptance testing of either lighting controls or mechanical systems pursuant to the requirements of Sections 10-103.1 or 10-103.2, respectively. ATTs are authorized to perform only those acceptance tests for which they are certified by an ATTCP. ATTs certified to perform acceptance testing of lighting controls are sometimes referred to as "lighting control ATTs," and ATTs certified to perform acceptance testing of mechanical systems are sometimes referred to as "mechanical ATTs." (See "Field Technician" and "Acceptance Test Technician Certification Provider.")

ACCEPTANCE TEST EMPLOYER (ATE) is a person or entity who employs an Acceptance Test Technician and is certified by an authorized Acceptance Test Technician Certification Provider pursuant to the requirements of Sections 10-103.1 or 10-103.2. ATEs are authorized to employ only those

ATTs for which they are certified by an ATTCP. ATEs certified to employ ATTs that perform acceptance testing of lighting controls are sometimes referred to as "lighting control ATEs," and ATEs certified to employ ATTs that perform acceptance testing of mechanical systems are sometimes referred to as "mechanical ATEs." (See "Acceptance Test Technician" and "Acceptance Test Technician Certification Provider.")

ACCEPTANCE TEST TECHNICIAN CERTIFICATION PROVIDER (ATTCP) is an agency, organization or entity approved by the Energy Commission to train, certify and oversee ATTs and ATEs relating to either lighting controls or mechanical systems according to the requirements of Sections 10-103.1 or 10-103.2, respectively. ATTCPs are authorized to certify only those ATTs and ATEs for which they are approved by the Energy Commission; ATTCPs approved to certify ATTs and ATEs relating to the acceptance testing of lighting controls are sometimes referred to as "lighting control ATTCPs," and ATTCPs approved to certify ATTs and ATEs relating to the acceptance testing of mechanical systems are sometimes referred to as "mechanical ATTCPs." (See "Acceptance Test Technician" and "Acceptance Test Employer.")

NOTE: Authority cited: Sections 25402, 25402.1, and 25213, Public Resources Code. Reference: Sections 25007, 25402(a)-(b), 25402.1, 25402.4, 25402.5, 25402.8 and 25910, Public Resources Code.

ACM means **ALTERNATIVE CALCULATION METHOD** are compliance software, or alternative component packages, or exceptional methods approved by the Commission under Section 10-109. ACMs are also referred to as Compliance Software.

ACM APPROVAL MANUALS are the documents establishing the requirements for Energy Commission approval of Compliance Software used to demonstrate compliance with the Building Energy Efficiency Standards for Residential and Nonresidential Buildings currently adopted by the Energy Commission.

ACM REFERENCE MANUAL is the document establishing the procedures required to implement Sections 140.1 and 150.1 of Title 24, Part 6 of the California Code of Regulations in Compliance Software.

ADDITIONALITY is a property of solar offsets whereby the offset causes additional benefits beyond what would occur as a result of all other actions, and which would exclusively benefit the building or property for which the offset substitutes for compliance obligations that would otherwise be required for that building or property, and those benefits would not ever be transferred to other buildings or property.

Application to Remodel Projects

OSHDPD *versus* CEC Definition of “Alteration”

What’s the Difference?

OSHDPD:

[A] ALTERATION. Any construction or renovation to an existing structure other than repair or addition.

[DSA-AC] A change, addition or modification in construction, change in occupancy or use, or structural repair to an existing building or facility.

Application to Remodel Projects

CEC:

ALTERATION is any change to a building's **water-heating system, space-conditioning system, lighting system, electrical power distribution system, or envelope** that is not an addition.

Alteration is also any change that is regulated by Part 6:

- to an outdoor lighting system that is not an addition
- to signs located either indoors or outdoors
- to a covered process that is not an addition (fenestration)

PART 6 – California Energy Code (CEC)

SECTION 141.0 ADDITIONS, ALTERATIONS AND REPAIRS TO EXISTING NONRESIDENTIAL, HIGH-RISE RESIDENTIAL, AND HOTEL/MOTEL BUILDINGS, TO EXISTING OUTDOOR LIGHTING, AND TO INTERNALLY AND EXTERNALLY ILLUMINATED SIGNS

Additions, alterations, and repairs to existing nonresidential, high-rise residential, and hotel/motel buildings, existing outdoor lighting for these occupancies, and internally and externally illuminated signs, shall meet the requirements specified in Sections 100.0 through 110.10, and 120.0 through 130.5 that are applicable to the building project, and either the performance compliance approach (energy budgets) in Section 141.0(a)2 (for additions) or 141.0(b) 3 (for alterations), or the prescriptive compliance approach in Section 141.0(a)1 (for additions) or 141.0(b)2 (for alterations), for the Climate Zone in which the building is located. Climate zones are shown in Figure 100.1-A.

Covered process requirements for additions, alterations and repairs to existing nonresidential, high-rise residential, and hotel/motel buildings are specified in Section 141.1.

Exception to Section 141.0: Alterations to healthcare facilities are not required to comply with this Section.

7-118. Building Energy Efficiency Program.

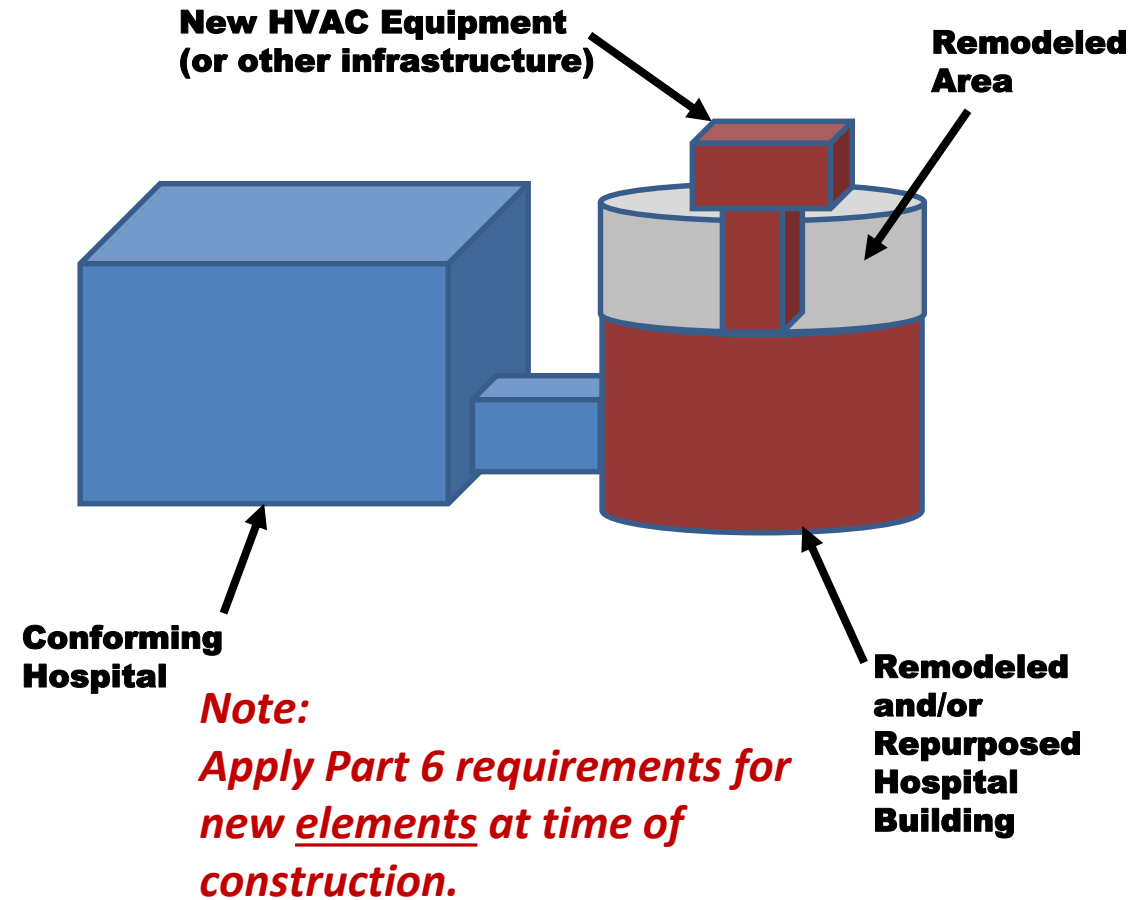
Projects that consist of any **new** elements related to A thru D shall include a Building Energy Efficiency Program **with the submittal**. The Program shall describe how the design of the building systems meets the owner's project requirements and include the associated Basis of Design (BOD) document required under Title 24, Part 6. The BOD shall describe the building systems to be commissioned, outline design assumptions, describe how the building systems design meets the owner's project requirements, and why the systems were selected. The BOD shall cover the following systems and components as described in the Building Energy Efficiency Standards, Nonresidential Compliance Manual:

- A. HVAC systems efficiencies
- B. Indoor lighting systems efficiencies
- C. Water heating systems efficiencies
- D. Building envelope considerations



Energy Practices for Remodels

- **New Lighting & Controls**
 - ☐ Meets Part 6
- **New HVAC Equipment**
(units, chillers, etc.)
 - ☐ Meets Part 6 (SEER)
- **New Ventilation Shaft**
(for future build-out)
 - ☐ Meets Part 6 (duct testing)



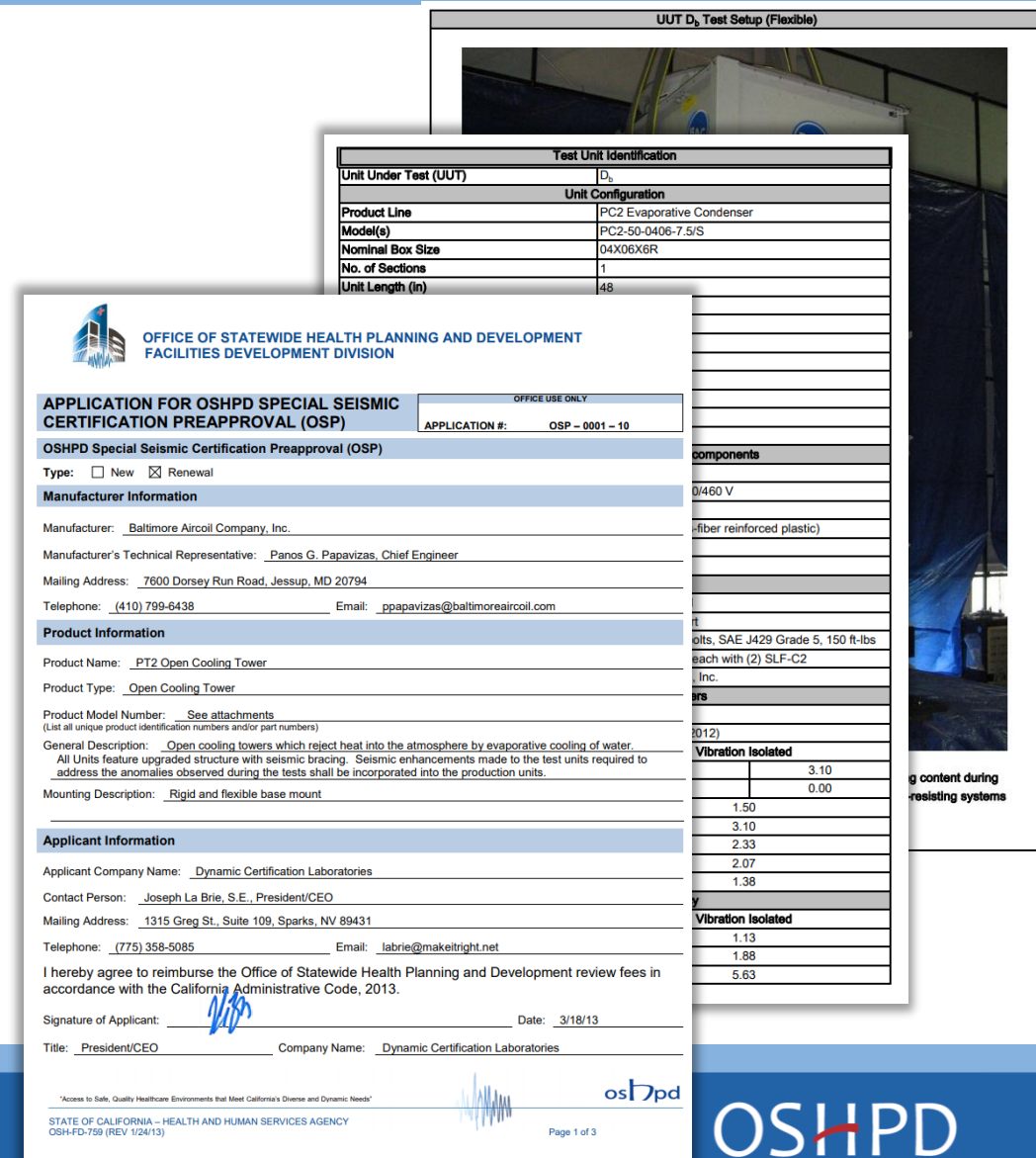
OSHDPD RESOURCES

- OSHPD Preapproved Manufacturer (OPM)
- OSHPD Preapproved Details (OPD)

OPD can be modified for site specific conditions if the DPOR stamps and signs the revised details and OSHPD approval is obtained

- OSHPD Special Seismic Certification Preapproval (OSP)
- Preapproved Laboratory (OPAA)

No substitutions of products!



The image shows a sample of the OSHPD Application for Special Seismic Certification Preapproval (OSP) form. The form is titled "APPLICATION FOR OSHPD SPECIAL SEISMIC CERTIFICATION PREAPPROVAL (OSP)" and includes sections for "Test Unit Identification", "Manufacturer Information", "Product Information", and "Applicant Information".

Test Unit Identification:

Test Unit Identification	
Unit Under Test (UUT)	D ₂
Unit Configuration	
Product Line	PC2 Evaporative Condenser
Model(s)	PC2-50-0406-7.5/S
Nominal Box Size	04X06X6R
No. of Sections	1
Unit Length (in)	48

Manufacturer Information:

Manufacturer: Baltimore Aircoil Company, Inc.
 Manufacturer's Technical Representative: Panos G. Papavizas, Chief Engineer
 Mailing Address: 7600 Dorsey Run Road, Jessup, MD 20794
 Telephone: (410) 799-6438 Email: ppapavizas@baltimoreaircoil.com

Product Information:

Product Name: PT2 Open Cooling Tower
 Product Type: Open Cooling Tower
 Product Model Number: See attachments
 (List all unique product identification numbers and/or part numbers)
 General Description: Open cooling towers which reject heat into the atmosphere by evaporative cooling of water.
 All Units feature upgraded structure with seismic bracing. Seismic enhancements made to the test units required to address the anomalies observed during the tests shall be incorporated into the production units.
 Mounting Description: Rigid and flexible base mount

Applicant Information:

Applicant Company Name: Dynamic Certification Laboratories
 Contact Person: Joseph La Brie, S.E., President/CEO
 Mailing Address: 1315 Greg St., Suite 109, Sparks, NV 89431
 Telephone: (775) 358-5085 Email: labrie@makeltright.net

I hereby agree to reimburse the Office of Statewide Health Planning and Development review fees in accordance with the California Administrative Code, 2013.

Signature of Applicant: [Signature] Date: 3/18/13
 Title: President/CEO Company Name: Dynamic Certification Laboratories

Vibration Isolated

Vibration Isolated
1.13
1.68
5.63

Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs!

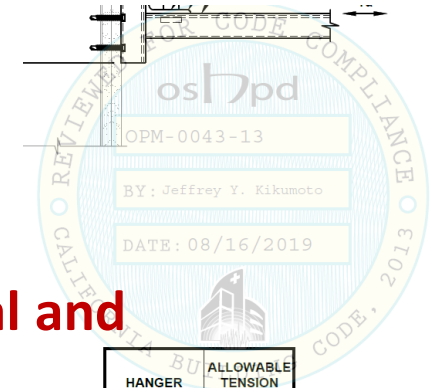
STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY
 OSH-FD-799 (REV 1/24/13)

Page 1 of 3

ARTICLE 3 APPROVAL OF CONSTRUCTION DOCUMENTS

Section 7-115. Preparation of construction documents and reports

(d) The specification and use of pre-approvals does not preempt the plan approval and building permit process

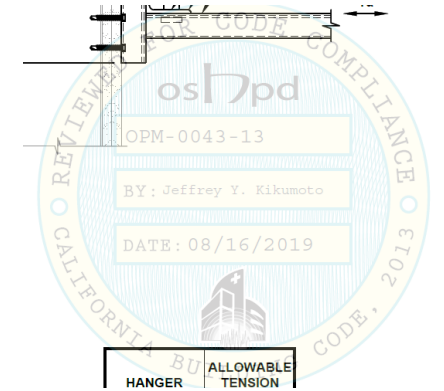


- The registered **design professional, in conjunction with the registered design professional in responsible charge**, listed on the plan review application or the building permit application, shall review all qualities, features, and/or properties to **ensure code compliance, appropriate integration with other building systems**, and proper design for the project-specific conditions and installation. Stamping and signing of construction documents as required in subsection (a) and (b) shall be for this purpose only.

ARTICLE 3 APPROVAL OF CONSTRUCTION DOCUMENTS

Section 7-115. Preparation of construction documents and reports

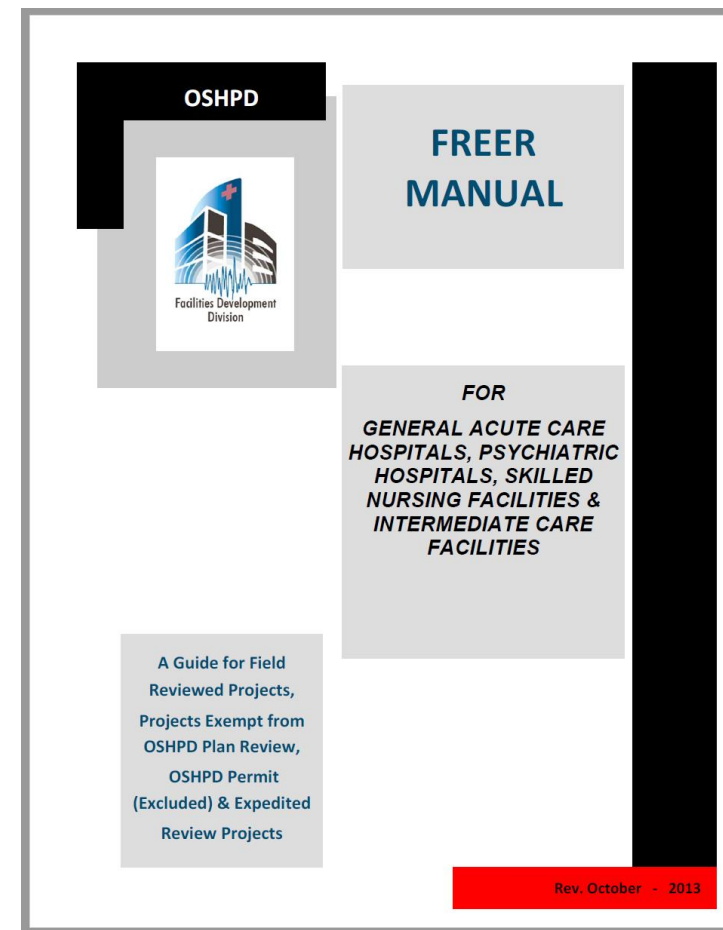
- When pre-approvals are used, they shall be incorporated into the construction documents. **Incorporation by reference only is not permitted.** Pre-approvals must be incorporated without any modification. This subsection shall not apply if modifications are made to the preapproved details.
- Pre-approvals **submitted after the construction documents have been approved** and a building permit has been issued shall be incorporated into the construction documents in accordance with **Section 7-153.**



➤ FREER Manual

➤ When is a Permit Required?

ARCHITECTURAL – Continued				
Category/Item	Excluded - CO Confirmation Required	Field Review Required	Office Expedite Review	Remarks
DOOR WINDOW Changing a window opening to a door opening		✓		No increase in opening width. Must meet accessibility requirements
FINISHES Painting, wall coverings, ceiling finishes and similar finish work in existing facilities	✓			See Table 1224.1
FOUNTAINS Installing interior drinking and decorative fountains.			✓	
HANDRAILS Replacement of handrails in corridors		✓		See Handrail Replacement Criteria, Section XI(e)
LADDERS Fixed Ladders			✓	Fixed ladders attached to the structure
PORTABLE PARTITIONS AND WORK STATIONS that are not open to or within the corridor or exit system	✓			Excluded if 5"-9" or less in height and not permanently connected (hardwired) to the



➤ How To Guides

OSHDP



Facilities Development
Division

EXPEDITED BUILDING PERMIT FOR WALL-MOUNTED TELEVISION/MONITOR BRACKET


1
How to Guide Series

FOR SINGLE STORY WOOD FRAME SKILLED NURSING FACILITIES & INTERMEDIATE CARE FACILITIES (OSHDP 2 Buildings)

A Companion Document to the OSHDP FREER Manual

December 2015

OSHDP



Facilities Development
Division

EXPEDITED BUILDING PERMIT FOR WATER HEATER REPLACEMENT


2
How to Guide Series

FOR SINGLE STORY WOOD FRAME SKILLED NURSING FACILITIES & INTERMEDIATE CARE FACILITIES (OSHDP 2 Buildings)

A Companion Document to the OSHDP FREER Manual

December 2015

OSHDP



Facilities Development
Division

EXPEDITED BUILDING PERMIT FOR WALL-MOUNTED HANDRAIL REPLACEMENT

3
How to Guide Series

FOR SINGLE STORY WOOD FRAME SKILLED NURSING FACILITIES & INTERMEDIATE CARE FACILITIES (OSHDP 2 Buildings)

A Companion Document to the OSHDP FREER Manual

December 2015

REMODEL

Question: *What is a Remodel?*

Answer: An Alteration.

Question: *What is an Alteration?*

➤ **Alteration Defined**

- Any construction or renovation to an existing structure other than repair or addition. CBC 202
- Alteration means any change in an existing building which does not increase and may decrease the floor or roof area or the volume of enclosed space.
CAC 7-111

When does CAN 2-102.6 apply?

➤ Existing Structures

- The legal occupancy of any structure existing on the date of adoption of this code shall be permitted to continue without change, except as is specifically provided in this code, the *California Existing Building Code*, the *International Property Maintenance Code*, the *California Fire Code*, or as is deemed necessary by the building official for the general safety and welfare of the occupants and the public. CBC 102.6

When does CAN 2-102.6 apply?

- Existing Structures
- Additions, Renovations, Alterations or Repairs
 - Additions, renovations, alterations, or repairs shall conform to that for a new system without requiring the existing systems to be in accordance with the requirements of this code. Additions, renovations, alterations, or repairs shall **not cause** an **existing** system to become **unsafe** or create unhealthy or overloaded conditions. CMC/CPC 102.4
 - Additions, alterations, renovations, or repairs to existing systems shall comply with the provisions for new construction, unless such deviations are found to be necessary and are first approved by the Authority Having Jurisdiction. CMC/CPC 102.4

- **Addition** - *An extension or increase in floor area or height of a building or structure*
- **Renovation** – an update to an existing building or a return to a new condition
- **Alteration** - *A change, addition or modification in construction, change in occupancy or use, or structural repair to an existing building or facility. Alterations include, but are not limited to, remodeling, renovation, rehabilitation, reconstruction, historic restoration, resurfacing of circulation paths or vehicular ways, changes or rearrangement of the structural parts or elements, and changes or rearrangement in the plan configuration of walls and full-height partitions. Normal maintenance, reroofing, painting or wallpapering, or changes to mechanical and electrical systems are not alterations unless they affect the usability of the building or facility (DSA) CBC 202*
- **Repair** – The reconstruction or renewal of any part of an existing building for the purpose of its maintenance or to correct damage CBC 202

When does CAN 2-102.6 apply?

- Existing Structures
- Additions, Alterations or Repairs
- Changes in Building Occupancy or Use
 - Building systems that are a part of a building or structure undergoing a change in use or occupancy, as defined in the building code, shall be in accordance with the requirements of this code that are applicable to the new use or occupancy. CMC/CPC 102.6

CBC 202

➤ Path of Travel Defined

- *An identifiable **accessible route within an existing site**, building or facility by means of which a particular area may be approached, entered and exited, and which connects a particular area with an exterior approach **(including sidewalks, streets and parking areas)**, an entrance to the facility, and other parts of the facility.*
- *When **alterations**, structural repairs or additions are made to existing buildings or facilities, the term “path of travel” also includes the **toilet and bathing facilities, telephones, drinking fountains and signs serving the area of work.***

PATH OF TRAVEL ACCESSIBILITY

CBC 11B-202.4

- Path of Travel
 - Primary Entrance
 - Toilet and Bathing Serving the Area
 - Drinking Fountains Serving the Area
 - Public Telephones Serving the Area
 - Signs

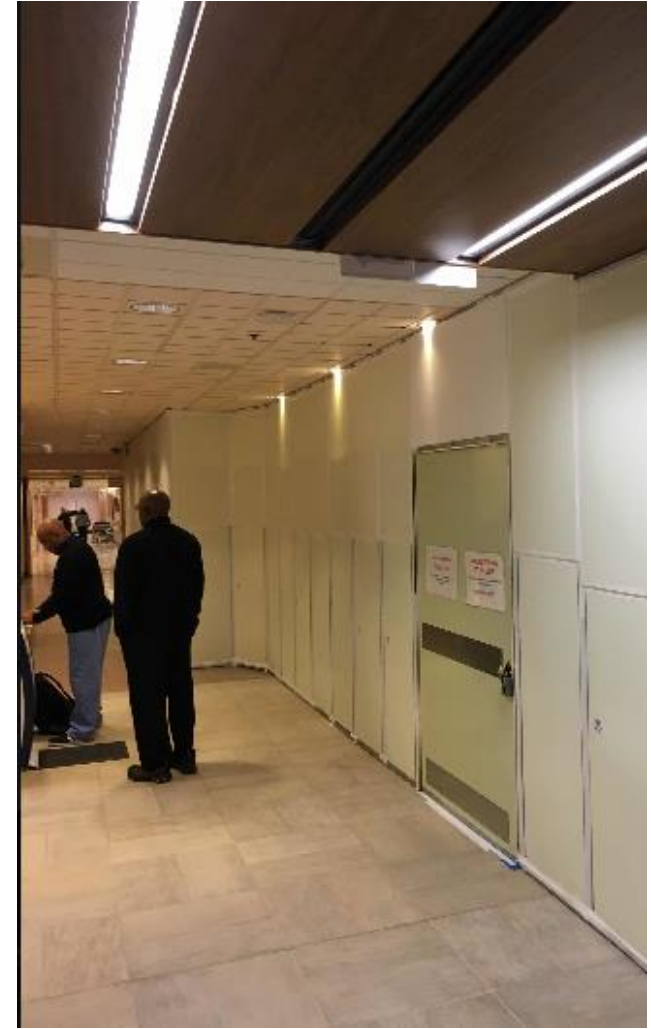
Examples of Path of Travel (PoT)

- Staff, Public or Patient Toilets
- Accessible Drinking Fountains
- Accessible Public Phones
- Site Modifications
- Mixed project where 90% is exempt from PoT upgrades and 10% is not – what to do?

➤ Exceptions to Path of Travel Upgrades

- Residential Dwellings
- If in compliance with current code or immediately preceding edition
- Additions or Alterations to Meet Accessibility Requirements
- Alterations of Existing Parking Lots
- Addition or Replacement of Signs
- Projects Consisting only of Heating, Ventilation, AC, Reroofing, Electrical Work, Cosmetic Work
- When adjusted Construction Cost Doesn't Exceed Current Valuation Threshold 20%
- Alterations for Installing Electric Vehicle Charging Stations.

- ICRA Expectations and Protocols
 - Interim Life Safety Measures (ILSM)
vs
Infection Control Risk Assessment (ICRA)
 - Should this be in the drawings?
 - Barrier & Phasing



- ILSM on Drawings
 - Temporary Fire Rated walls will be inspected so they need to be shown
 - Setting up temporary walls is a critical path activity
 - Site investigation to determine conditions and what details are needed
 - Consider clearances when locating temporary walls. Note that contractors need 2' beyond any fire rated temporary wall to set up a dust free barrier while the hard framed temporary wall is built.
 - Hard Framed temporary barriers have all of the standard inspections (framings & screw pattern). If wedge anchors are used in the bottom track these add a day to the process in order to let them set for 24hrs before being torque tested.

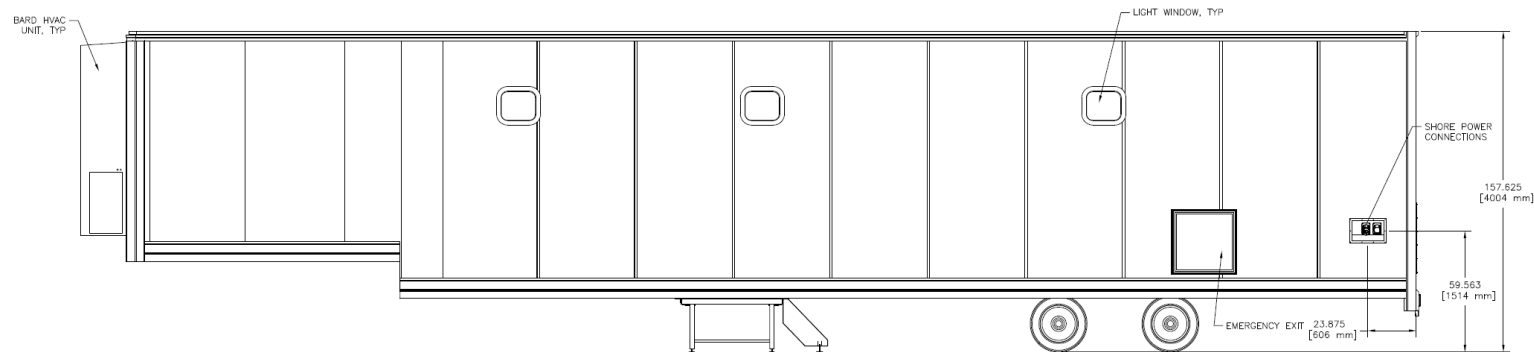


- **Methods of Procedures**
 - OSHPD vs CDPH Roles
 - Interruption of Services During Construction
 - Operation of Patient Services During Construction
 - When Shown on Plans?

Note: Not to be confused with welding procedures, etc.

TEMPORARY EQUIPMENT / UTILITIES

- Air Balance
- Generators
- Air Handling Units
- Pharmacy Compounding Mobile Units
- Temporary vs Interim



- **REMOVED FROM ACUTE CARE SERVICE [OSHDP 1R]**
 - Buildings that previously provided basic and/or supplemental services, as defined in Section 1224.3, that have
 - Primarily Remodels
 - been removed from acute care service in compliance with Part 10 California Existing Building Code Chapter 3A,
 - and remain under the jurisdiction of the Office of Statewide Health Planning & Development (OSHDP).

OSHDP 1R UNIQUE CONSIDERATIONS

- The removal of General Acute Care Hospital (GACH) services from a building may result in a change of:
 - Use
 - Occupancy
 - Function
 - Licensure
 - A combination of the above for all or a part of the building
- It may also involve a change of the authority having jurisdiction from OSHDP to the local enforcement agency if the SPC Building meets specified seismic separation and fire protection criteria (i.e. “Freestanding”)

VACATED SPACES

CEBC Section 309A.6



With the removal of general acute care services, the vacated space must be reclassified with an intended occupancy as required under CBC 302 (Occupancy Classification).

If the hospital determines that the building or space in the SPC building removed from general acute care service will be vacant, the hospital shall demonstrate that unsafe conditions as described in CBC 116.1 are not created.

VACANT SPACES

Vacant Spaces:

Requires Building Permit to Address:

- Unsafe, Insanitary
 - Deficiencies from Inadequate:
 - Means of Egress
 - Lighting
 - Ventilation
- Fire Hazards
 - Dangers to:
 - Human Life
 - Public Welfare



- Unsafe Conditions Due To:
 - Illegal Occupancy
 - Improper Occupancy
 - Inadequate Maintenance
 - Unsecured Against Unauthorized Entry

- Notice Of Start of Construction CAC 7-137
 - As soon as a contract has been awarded, the governing board or authority of the health facility shall provide to the Office, on a **form** provided by the Office, the following:
 1. Name and address of the contractor
 2. Contract price
 3. Date on which contract was awarded
 4. Date of construction start

- Permit Set on Site During Construction
 - Paper vs. Electronic plans
- Paper vs. Electronic Code Books
- Electronic Review for ACDs
- Remember: The log of changes to the work is prepared and maintained by the DPOR. The IOR needs to have access to either a paper copy or electronic copy of the most current log.



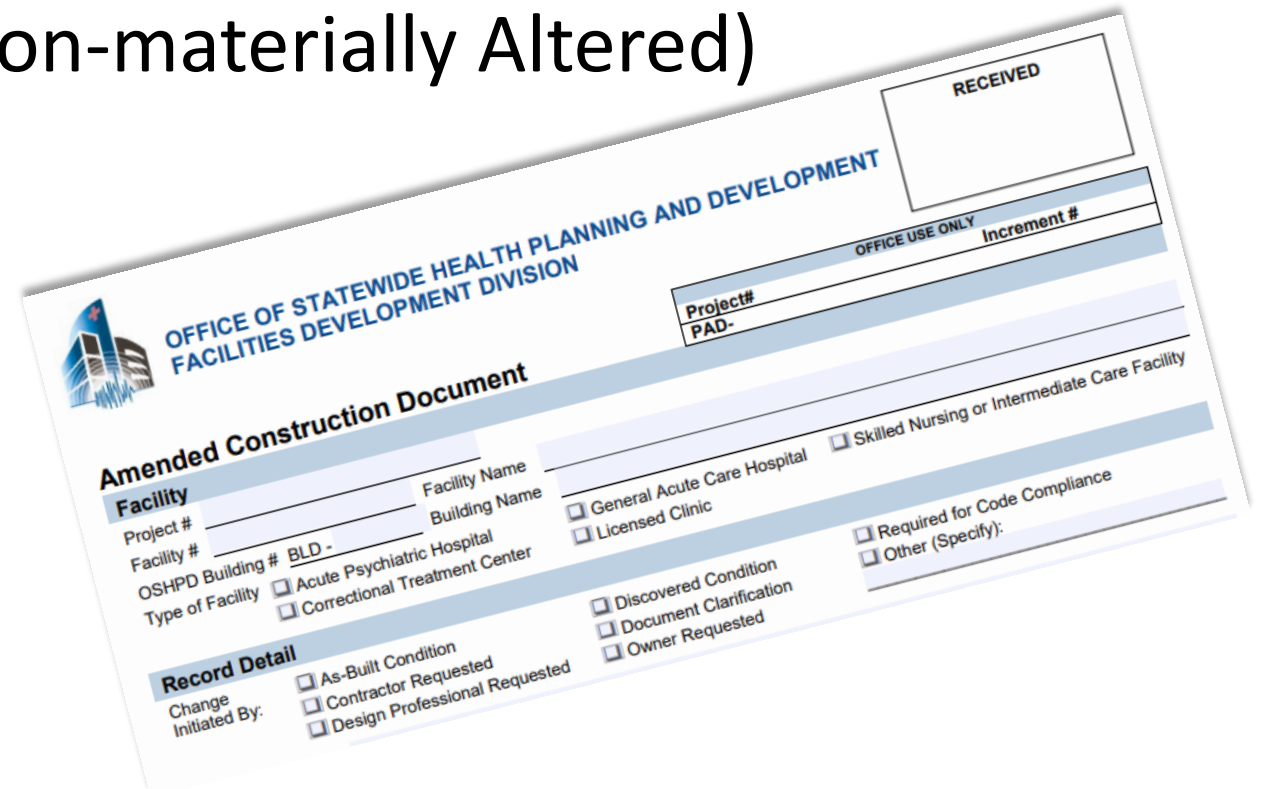
SUSPENSION OF CONSTRUCTION

Notice of Suspension of Construction: CAC 7-139

- (a) When construction is suspended for **more than two weeks**, the governing board or authority of the hospital shall notify the Office in writing.
- (b) If the work of construction is suspended or abandoned for any reason for a period of one year following its **commencement**, the Office's approval shall become void.

SUSPENDED

- Amended Construction Documents
- Using Preapproved Details (Non-materially Altered)
- Deferred Approvals
- ASIs
- Not Submittals
- Not Shop Drawings



OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
FACILITIES DEVELOPMENT DIVISION

Amended Construction Document

Facility
Project # _____ Facility Name _____
Facility # _____ Building Name _____
OSHPD Building # BLD - _____
Type of Facility ☐ Acute Psychiatric Hospital ☐ General Acute Care Hospital ☐ Skilled Nursing or Intermediate Care Facility
☐ Correctional Treatment Center ☐ Licensed Clinic

Record Detail
Change Initiated By: _____
☐ As-Built Condition ☐ Discovered Condition
☐ Contractor Requested ☐ Document Clarification
☐ Design Professional Requested ☐ Owner Requested

OFFICE USE ONLY
Project# _____ Increment # _____
PAD- _____

RECEIVED

☐ Required for Code Compliance
☐ Other (Specify): _____

➤ Methods of Procedures (MoPs)

- OSHPD Does Not Approve (may review if construction is involved – show on documents)
- Used for Interruption of Services During Construction
- Patient Services to Remain in Operation During Construction
- CDPH may Need to Review
- Local Jurisdictional Requirements
 - On-site Trailer/Storage Placement
 - Recycling Construction Debris
 - Interim Life Safety Measures

Note: Not to be confused with welding procedures, etc.

- Unauthorized Work found during construction (CAC 7-128)
 - “U” Project INV
 - T&M
 - May delay current project
 - May restrict future projects



Construction in an Operating Facility

- Minimum Code Compliance Exiting during construction
 - 6' Clear Corridor exiting to a 4' ADA Sidewalk
 - If exiting adjacent to a construction zone walk way must be protected for a length per Table 33016 of Chapter 33 in the CBC
 - Patients must have access to a covered drop off-pick up location
 - Exit routes must meet code required minimum light levels and maintain sprinkler coverage



- **What is required for ICRA**
 - Coordinated between GC and authorized Facilities representatives to classify the type of construction and the sensitivity of the area
 - Post Disruption Notices (DN) & Methods of Procedures (MOP) in work space for reference
 - Review ILSM with IOR/CO/FLSO as necessary
 - Review ICRA with hospital infection control specialist.
 - Get Signatures!

INFECTION CONTROL MATRIX OF PRECAUTIONS FOR CONSTRUCTION AND RENOVATION
Circle appropriate component and follow detailed work controls as outlined below.

Risk Level	CONSTRUCTION ACTIVITY			
	Type A: Inspection, non-invasive activity	Type B: Small scale, short duration, minimal dust generating	Type C: Moderate to high levels of dust, duration > than one shift	Type D: Major demolition / construction
Group 1 (least risk)	I	II	III	III/IV
Group 2 (medium risk)	I	II	III	IV
Group 3 (medium/high risk)	I	II	III/IV	IV
Group 4 (highest risk)	II	III/IV	III/IV	IV
CLASS I	1. Execute work by methods to minimize raising dust from construction operations. 2. Immediately replace ceiling tiles displaced for visual inspections.			Upon Completion of Project Work area will be cleaned if necessary.
CLASS II	1. Provide active means to prevent airborne dust from dispersing into atmosphere. 2. Water mist work surfaces to control dust while cutting. 3. Seal unused doors with duct tape. 4. Block off and seal air vents as necessary.			Upon Completion of Project 1. Contain construction waste before transport in tightly covered containers. 2. Wet mop and/or vacuum with HEPA filtered vacuum before leaving work area. 3. Wipe work surfaces with cleaner/disinfectant. 4. Upon completion restore HVAC systems where work is being performed.
CLASS III	1. Isolate HVAC system in area where work is being done to prevent contamination of duct system. 2. Complete all critical barriers before construction begins. 3. Maintain negative air pressure within work site utilizing HEPA equipped air filtration units. 4. Contain construction waste before transport in tightly covered containers. 5. Cover transport receptacles or carts. Tape covering unless solid lid. 6. Place dust mat at entrance and exit of work area. 7. Wet mop and/or vacuum with HEPA filtered vacuum before leaving work area.			Upon Completion of Project 1. Follow Class II guidelines. 2. Do not remove barriers from work area until completed project is thoroughly cleaned by Environmental Services Department. 3. Remove barrier materials carefully to minimize spreading of dirt and debris associated with construction. 4. Vacuum work area with HEPA filtered vacuum. 5. Wet mop area with cleaner/disinfectant.
CLASS IV	1. Implement all of Class III measures. 2. Seal holes, pipes, conduits, and punctures appropriately. 3. Construct anteroom and require all personnel to pass through this room so they can be vacuumed using a HEPA vacuum cleaner before leaving work site. They can wear cloth or paper coveralls that are removed each time they leave the work site instead of vacuuming. 4. All personnel entering work site are required to wear shoe covers. Shoe covers must be changed each time the worker exits the work area. 5. Provide adhesive walk-off mat at entrance to work area within the anteroom. Replace mats in accordance with manufacturer's recommendation.			Upon Completion of Project 1. Follow Class III guidelines. 2. Cover transport receptacles or carts, covering unless solid lid.

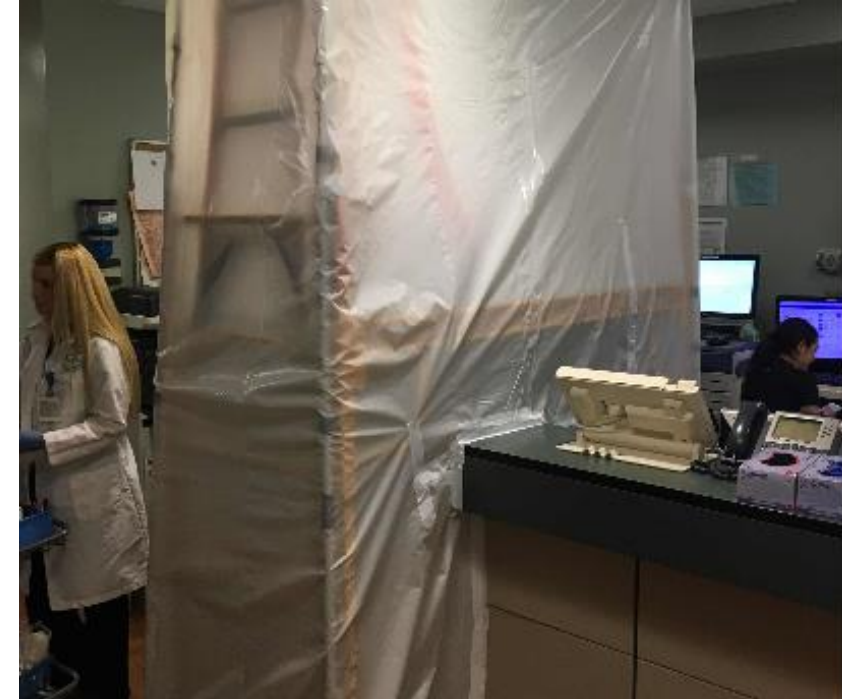
Replace Primary on Monday, Wednesday & Friday

Replace Secondary on Monday

Replace HEPA 1st of every month

	Week of				Week of			
	Monday	Wednesday	Friday		Monday	Wednesday	Friday	
Hepa Scrubber #	Replace Primary	Replace Secondary	Replace Primary	Replace Primary	Replace Primary	Replace Secondary	Replace HEPA	Replace Primary
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								

- **ICRA Expectations and Protocols:**
- Who is accountable
 - Patient care, infection control, worker safety involves everyone
 - Facility is responsible for establishing the criteria
 - GC is responsible for the means of ensuring the protective layer
 - Everyone that enters the construction area is responsible for following the established protocol



- **ICRA Expectations and Protocols:**
- Who inspects the ICRA
 - GC Daily
 - Barrier Integrity
 - Pressure relationships
 - Air Filter Maintenance
 - Fire Alarm System access
 - Access & Debris
 - Facilities
 - Prior to set up and after tear down at a minimum
 - Periodic visit to ensure standards are being followed



Temporary Equipment/Utilities

- The duration that temporary utilities will be in place drives what level of requirements the system will need to be design to.
- Reference Can 2-108

CODE APPLICATION NOTICE (CAN)

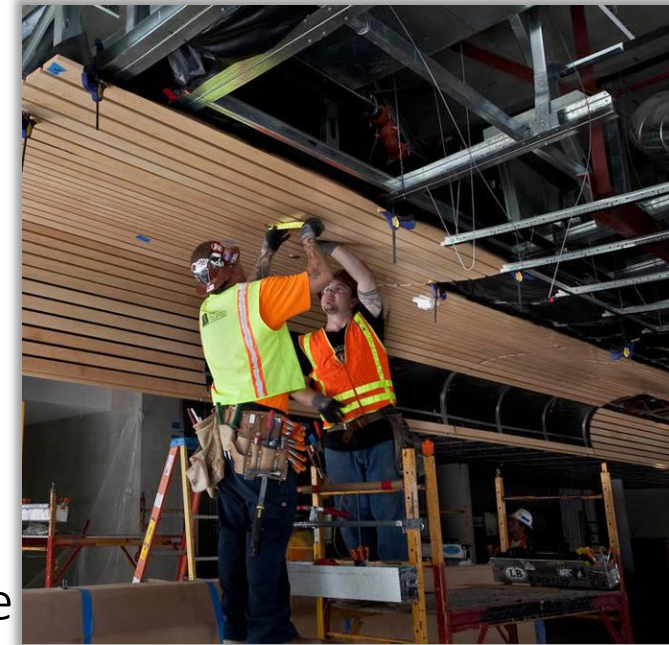
	Short-Term Temporary Permit 7-day maximum	Mid-Term Temporary Permit 30-day maximum	Long-Term Temporary Permit 180-day maximum
Temporary chillers	Temporary chillers located outdoors, the pressure relief shall be located a minimum 10 feet from windows or outside air intake locations.	Temporary chillers located outdoors, the pressure relief shall be located a minimum 10 feet from windows or outside air intake locations.	Temporary chillers located indoors shall comply with all requirements of CMC Chapter 11. If located outdoors, the pressure relief shall be located a minimum 10 feet from windows or outside air intake locations.
Flexible ductwork	Flexible ductwork is permitted between the temporary unit and the hard duct system.	Flexible ductwork is permitted for distances up to <u>25 feet</u> in length.	Flexible ductwork is permitted for distances up to <u>25 feet</u> in length.
Flexible piping	Flexible piping, rated for the pressure and media, is permitted between the temporary unit and the rigid piping system.	Flexible piping rated for the pressure and media is permitted for distances up to <u>25 feet</u> maximum in length.	Flexible piping rated for the pressure and media is permitted for distances up to <u>10 feet</u> in length.
Seismic bracing of temporary piping, conductors and ductwork	Short-term temporary piping, conductors and ductwork do not require seismic bracing.	Mid-term temporary piping, conductors and ductwork do not require seismic bracing.	Long-term temporary piping, conductors and ductwork shall be secured/supported. Seismic design for supports and attachments of long-term temporary piping, conductors and ductwork is not required.
Protective barriers	Barriers shall be provided for pipes, ducts and conductors associated with temporary equipment to protect them from physical damage. Short-term temporary utilities shall <u>not be subjected to vehicular traffic</u> .	Barriers shall be provided for pipes, ducts and conductors associated with temporary equipment to protect them from physical damage. Temporary utility lines subject to vehicular traffic <u>shall be placed in trenches covered with traffic-rated plates</u> . Temporary fuel gas service shall be protected against damage per CPC Section 1207.0.	Barriers shall be provided for pipes, ducts and conductors associated with temporary equipment to protect them from physical damage. Temporary utility lines subject to vehicular traffic shall be placed in trenches <u>with backfill</u> and covered with traffic-rated plates. Temporary fuel gas service shall be protected against damage per CPC Section 1207.0.
Protection of temporary electrical equipment	Short-term temporary electrical equipment and cables shall be protected from physical damage and guarded with suitable fencing, barriers, or other effective means to limit access only to authorized and qualified personnel per CEC Article 590.	Mid-term temporary electrical equipment and cables shall be protected from physical damage and guarded with suitable fencing, barriers, or other effective means to limit access only to authorized and qualified personnel per CEC Article 590.	Long-term temporary electrical equipment and cables shall be protected from physical damage and guarded with suitable fencing, barriers, or other effective means to limit access only to authorized and qualified personnel per CEC Article 590.

Materially Altered CAN 2-107.4. NOW 2019 CAC 7-153

- OSHPD will only review changes made during construction that materially alter the work
- If calculations by a structural engineer are necessary to determine structural or nonstructural adequacy, an ACD must be submitted to OSHPD for review
- If the architect or engineer in responsible charge of a project determines that plans and/or specifications are necessary for a change that does not materially alter the work, all such plans or specifications shall be stamped and signed by the appropriate design professional(s) pursuant to Section 7-115 of the 2010 CAC
- All changes in the work are subject to the concurrence of OSHPD field staff as to whether or not the change materially alters the work
- If DPOR determines change is Non-materially Altered, can proceed “at risk”
- If Field Review is requested, field staff must be contacted to schedule review

Non Materially Altered Criteria

1. Clarification and interpretation of plans and specifications by the responsible design professional
2. Construction means and methods, such as construction sequencing, coordination of the work, and methods of assembly/construction
3. Substitutions of **equipment**, products, or materials
4. New details that are based on other approved details, in whole or in part, including referenced standards or preapproved details
5. Final routing configurations of ducts, conduits, pipes, etc. where these are shown diagrammatically on the approved plans



Non Materially Altered Criteria (cont.)

6. Dimensional changes to rooms, other than Incidental Use Areas, that do not affect code required minimum dimensions, fixed dimensions, minimum room or space requirements and required clearances
7. Relocation of doors, windows, electrical switches and outlets, plumbing fixtures, etc. that do not require additional changes to the work to make the relocation code compliant
8. Relocation or reconfiguration of cabinetry that does not affect code required minimum dimensions and clearances, minimum room or space requirements, minimum storage requirements
9. All documents/drawings including ASIs, NMAs, etc. shall be stamped/singed by the DPOR per CAC 7-153.

