



2020 West El Camino Avenue, Suite 800
Sacramento, CA 95833
hcai.ca.gov



**Hospital Building Safety Board
Codes and Processes Committee**
May 8, 2024
10:00 a.m. – 12:00 p.m.

The Committee may not discuss or act on any matter raised during the public comment section that is not included on the agenda, except to place the matter on a future meeting agenda. (Government Code §§ 11125, 11125.7, subd. (a).)

Committee Members: Michael O'Connor, Committee Chair
Teresa Endres, Committee Vice-Chair
Cody Bartley
Louise Belair
Jennifer Cox
Michael Davis
Gary Dunger
John Griffiths
Mark Hershberg*
Scott Mackey
Jim Malley
Kelly Martinez*
Farzad Naeim
Belinda Young*

HCAI Staff: Elizabeth Landsberg, Director
Chris Tokas, Deputy Director
Richard Tannahill, Deputy Division Chief
Arash Altoontash, Deputy Division Chief
Veronica Yuke, Acting Executive Director
John Gray, Attorney

Brett W. Beekman, Supervisor
Larry Enright, Senior Mechanical Engineer
Joe LaBrie, Regional Compliance Officer
Roy Lobo, Principal Structural Engineer
Bob Lyons, District Structural Engineer
Mia Marvelli, Supervisor
Diana Navarro, Supervisor
Carl Scheuerman, Compliance Officer
Jamie Schnick, Senior Electrical Engineer
Nanci Timmins, Chief Fire and Life Safety Officer

*Consulting Member

Item #1

Call to Order and Welcome

*Facilitator: Michael O'Connor, Principal, Nichols, Melburg & Rossetto;
Committee Vice-Chair (or designee)*

Item #2

Roll Call and Meeting Advisories/Expectations

*Facilitator: Veronica Yuke, Supervisor, HCAI; Acting Executive
Director (or designee)*

Item #3

Triennial Code Cycle update and timelines

- Discussion and public input

Facilitator: Mia Marvelli, Architect, Supervisor; HCAI (or designee)

Title 24
California Building
Standards Code
Update

Timeline

- ✓ **2022 edition Supplement (blue pages) goes into effect July 1, 2024**
- ✓ **2025 Edition of Title 24 (2024 Triennial Code Cycle)**
 - Aug. 2023, Submit Electrical to CBSC
 - Feb. 2024, Submit Mech and Plumb. to CBSC
 - May 2024, Submit Admin, Building Vol. 1 & 2, Existing to CBSC

OSHPD Timeline and HBSB Meetings

DUE TO CBSC

Feb. 2024
Submit CMC and CPC

May 2024
Submit CAC, CBC, Vol. 1 & 2,
and CEBC

REVIEWED BY HBSB/COMMITTEE

Sept. 14, 2024 (Codes and Process) CEC
Jan. 10, 2024 (Codes and Process) CMC and CPC

Feb. 21, 2024 (Codes and Process) CAC, CBC Vol. 1

Mar. 6, 2024 (Struct & Non-Struct) CAC, CBC Vol. 2 and CEBC

Apr. 18, 2024 HBSB Full Board meeting

May 8, (Codes and Process) FLS (SFM) related items



OSHPD Coordination with SFM

MEETINGS WITH STATE FIRE MARSHAL

Discuss possible authority overlap SFM/OSHPD

Nov. 13, 2023 CBC, CEC, CMC

Nov. 20, 2023 CMC and CPC

Nov. 29, 2023 CEC and CBC

Dec. 21, 2023 CMC and CBC

March 2024

Ongoing...

CBSC Code Advisory Committee dates

GREEN — MARCH 18-19, 2024

+

PEME — MARCH 25-26, 2024

+

ACCESS — JUNE 4-5, 2024

+

BFO — JULY 9-11, 2024

+

SDLF — JULY 16-17, 2024

+

HF — JULY 30, 2024

+



Familiar faces:

Connie Christensen-HF Ex-Officio

Gary Dunger-HF

Belinda Young-HF

Bill Zellmer-HF & ACCESS

CBSC Public Comment Periods

45-Day Public Comment Period

PEME	May 17 – July 1
SDLF/BFO/HF	July 26 – September 9

SUBSCRIBE TO CBSC'S MAILING LIST

Stay in touch with CBSC and receive meeting and public comment period notices, information bulletins, quarterly newsletters and more! Add your email address to our mailing list by visiting [DGS' govDelivery Subscription Service](#) webpage. After submitting your email, be sure to select the "CBSC Communications" topic on the next page. View our [Privacy Policy](#) for more information.

www.dgs.ca.gov/BSC/Contact

CBSC Rulemaking page www.dgs.ca.gov/BSC/Rulemaking/2024-Triennial-Cycle

- Any Questions?
- Any Additional Thoughts or Discussion?



Item #4

2025 California Building Code, Part 2, Volume 1, Title 24: Proposed Amendments sent to the Office of the State Fire Marshal

- Discussion and public input

*Facilitator: Nanci Timmins, Chief Fire and Life Safety Officer, HCAI
(or designee)*



HBSB
Codes and Processes Committee
California Building Standards, Part 2
Initial Express Terms Presentation
2024 Triennial Code Cycle

Nanci Timmins
Chief Fire and Life Safety Officer

T24 Part 2

**T24 Part 2,
Chapter 4, Section: 404.12**

Proponent: SFM OSHPD/HCAI

404.12 Group I and R-2.1 occupancy means of egress.

Required means of egress from sleeping and treatment rooms in Group I and R-2.1 occupancies shall not pass through the atrium.

T24 Part 2

T24 Part 2, Chapter 4, Section: 407.4.4

407.4.4 Group I-2 care suites. Care suites in Group I-2 shall comply with Sections 407.4.4.1 through 407.4.4.5 and either Section 407.4.4.5 6 or 407.4.4.6 7.

407.4.4.1 Exit access through care suites. Exit access from all other portions of a building not classified as a care suite shall not pass through a care suite. ~~In a care suite required to have more than one exit, one exit access is permitted to pass through an adjacent care suite provided that all of the other requirements of Sections 407.4 and 1016.2 are satisfied.~~

407.4.4.2 Separation. Care suites shall be separated from other portions of the building, including other care suites, by *not less than a one-hour fire barrier* complying with Section 707. ~~Each suite of rooms shall be separated from the remainder of the building by not less than a one-hour fire barrier.~~

T24 Part 2

407.4.4.3 Access to corridor. Every care suite shall have a door leading directly to an exit access corridor or horizontal exit. Movement from habitable rooms within a care suite shall not require more than 100 feet (30 480 mm) of travel within the care suite to a door leading to the exit access corridor or horizontal exit. Where a care suite is required to have more than one exit access door by Section 407.4.4.6.2 or 407.4.4.7.2, the additional door shall lead directly to an exit access corridor, exit or an adjacent suite. ~~Movement from habitable rooms shall be in accordance with Sections 407.4.4.3.1, 407.4.4.3.2 and 407.4.4.5.3.~~

~~**407.4.4.3.1 One intervening room.** Movement from habitable rooms shall not require passage through more than one intervening room and 100 feet (30 480 mm) distance of travel within the care suite.~~

407.4.4.3.1 Sleeping Room. Sleeping rooms shall be limited to one intervening room.

T24 Part 2

Chapter 4, Section: 407.4.4.4

Proponent: SFM OSHPD/HCAI

INITIAL EXPRESS TERMS

Revise as follows:

[BE] 407.4.4.4 ~~Circulation paths within a care suite.~~

~~The circulation paths within a care suite providing the access to doors required in Section 407.4.4.3 shall have a minimum width of 36 inches (914 mm) and shall not be required to meet the requirements for a corridor or an aisle.(~~

T24 Part 2

Chapter 4, Section 407.7

Proponent: SFM OSHPD/HCAI

INITIAL EXPRESS TERMS

Revise as follows:

[F] 407.7 Automatic sprinkler system

...

Exceptions:

...

3. This section shall not apply to occupancies or any alterations thereto conforming to the construction provisions of this exception which were under construction or in existence on March 4, 1972. "Under construction" as used in this exception shall mean that actual work had been performed on the construction site and shall not be construed to mean that the hospital, home, nursery, institution, sanitarium or any portion thereof, was or is in the planning stage. The provisions of this exception shall apply to those buildings or structures having bearing walls and structural flame frames protected in accordance with the provisions of Column Type 4IA of Table 601.

**T24 Part 2,
Chapter 4, Section: 407.11**

Proponent: SFM/HCAI

INITIAL EXPRESS TERMS

Revise as follows:

407.11 Electrical Systems. In Group I-2 occupancies, electrical construction and installation shall be in accordance with the provisions of Chapter 27, ~~and~~ *Article 517 of the California Electrical Code*, and NFPA 99.

T24 Part 2

Chapter 4, Section: 422.7

Proponent: SFM

INITIAL EXPRESS TERMS

Revise as follows:

422.7 Domestic cooking

In fully sprinklered buildings, installation of cooking appliances used in domestic cooking facilities shall comply with all of the following:

1. The types of cooking appliances permitted are limited to ovens, cooktops, ranges, warmers and microwaves.
2. Domestic cooking hoods installed and constructed in accordance with Section 505 of the *International Mechanical Code* shall be provided over cooktops or ranges.
3. A shutoff for the fuel and electrical supply to the cooking equipment shall be provided in a location to which only staff has access.
4. A timer shall be provided that automatically deactivates the cooking appliances within a period of not more than 120 minutes.
5. A portable fire extinguisher shall be provided. Installation shall be in accordance with Section 906 and the extinguisher shall be located within a 30-foot (9144 mm) distance of travel from each domestic cooking appliance.

6. The area containing the domestic cooking appliances shall be separated from all other areas by fire partitions constructed in accordance with Section 708.

T24 Part 2

Chapter 7, Section 707.5

Proponent: SFM OSHPD/HCAI

INITIAL EXPRESS TERMS

Revise as follows:

707.5 Continuity

Fire barriers shall extend from the top of the foundation or floor/ceiling assembly below to the underside of the floor or roof sheathing, slab or deck above and shall be securely attached thereto. Such fire barriers shall be continuous through concealed space, such as the space above a suspended ceiling. Joints and voids at intersections shall comply with Sections 707.8 and 707.9

Exceptions:

...(Exceptions 1-3 remain unchanged)

4. In Group I-2 occupancies, in other than rooms containing stationary fuel cell power systems required to be separated per California Fire Code 1206.6.2, fire barriers required by 509.4, shall be permitted to terminate at an individually protected structural member in the same plane, provided the structural member has a solid web or solid surface along its length for the full height of the structural member and has a fire resistance rating of not less than that required for the fire barrier wall.

5. In Group I-2 occupancies, in other than rooms containing stationary fuel cell power systems required to be separated per California Fire Code 1206.6.2, fire barrier separations required by 509.4, that do not extend to the underside of the roof sheathing, slab or deck above shall be permitted to be enclosed at the top with construction of the same fire-resistance rating as required for the fire barrier.

T24 Part 2

T24 Part 2,

Chapter 10, Section 1008.3.2

1008.3 Illumination required by an emergency electrical system.

An emergency electrical system shall be provided to automatically illuminate the following areas in the event of a power supply failure:

1. In rooms or spaces that require two or more exits or access to exits:
 - 1.1. Aisles.
 - 1.2. Corridors.
 - 1.3. Exit access stairways and ramps.
2. In buildings that require two or more exits or access to exits:
 - 2.1. Interior exit access stairways and ramps.
 - 2.2. Interior and exterior exit stairways and ramps.
 - 2.3. Exit passageways.

2.4. Vestibules and areas on the level of discharge used for exit discharge in accordance with Section 1028.2.

2.5. Exterior landings as required by Section 1010.1.5 for exit doorways that lead directly to the exit discharge.

3. In other rooms and spaces:

3.1. Electrical equipment rooms.

3.2. Fire command centers.

3.3. Fire pump rooms.

3.4. Generator rooms.

3.5. Public restrooms with an area greater than 300 square feet (27.87 m²).

[4. Group I-2 exit discharge stairways, ramps, aisles, walkways and escalators leading to a public way or to a safe dispersal area in accordance with Section 1028.5.](#)

Thank you!

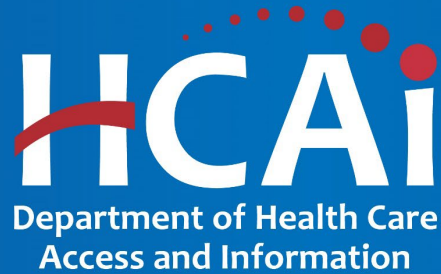
Nanci.Timmins@hcai.ca.gov

Item #5

Update on Electronic Test, Inspection, and Observation (eTIO)
Development

- Discussion and public input

*Facilitator: Chris Davis, SE, District Structural Engineer, HCAI
(or designee)*



Update on Electronic Test, Inspection, and Observation (eTIO) Development

Chris Davis, DSE
Inspection Services Unit



HCAI Inspection Services Unit eTIO Update

- Development Update
- Walk through of screenshots

Summary Page – Stage Overview

Project: S230056-03-00-TIO-1

[View/Edit Master Test & Inspection List](#) [Add Stage](#)

Color	Progress Status
●	Completed
●	In Progress
●	Not Started

Stage	Description	Stage Status
+ Stage 1 Core 1245	1 stage test	●
+ Beta Test	2 Stage	●
+ Stage 3 changed	nick tet	●
+ Joe's Stage	Trying to add a stage	●
+ Chris Test	Test2	●
+ Stage 1 Core 234	1 stage test 234	●
+ it would be helpfull if	the sections didnt collapse after making changes or updates	●
+ test 1234		●

Summary Page – Milestone Details

Project: S230056-03-00-TIO-1

[View/Edit Master Test & Inspection List](#)

[Add Stage](#)

Color	Progress Status
●	Completed
●	In Progress
●	Not Started

Stage	Description	Stage Status		
- Stage 1 Core 1245	1 stage test	●		
Add Milestone				
Milestone	Milestone Description	Milestone Status		
- Milestone 1234	12 milestone	●		
Add Test/Inspection				
Key	Scope	Item	Description	Test/Inspection Status
SI-S1	Structural	Soils	Soil fill	●
SI-S9	Structural	Concrete	Admixtures	●
SI-S24	Structural	Masonry	Reinforced grouted masonry	●
SI-S9	Structural	Concrete	Admixtures	●
SI-E1	Electrical	Available Fault and Short-Circuit Current Field Marking per Approved Coordination Study		●
SI-E1	Electrical	Available Fault and Short-Circuit Current Field Marking per Approved Coordination Study		●
T-S1	Structural	Soil fill	Fill material acceptance test	●
T-S8	Structural	Concrete	Aggregates/Reactive aggregates	●
T-S8	Structural	Concrete	Aggregates/Reactive aggregates	●
T-S28	Structural	Steel	Testing of unidentified steel or identification test for structural steel and cold formed steel	●
T-E1	Electrical	Ground Fault Protection of Equipment		●
T-E1	Electrical	Ground Fault Protection of Equipment		●
+ Milestone 2	2			●
+ my test joe changed	tsting new			●



Special Inspection Details

Close Window

Status: Not Started ●

Structural Inspection **SI-S1**

Scope: Foundation

Description: Soil fill

Commentary: No Commentary

Inspected by Approved Agency or Individual			IOR Verification		HCAI Field Staff Acceptance	
Name	Start Date	Finish Date	Name	Date	Name	Date
Not Assigned						

- Assign Approved Agency or Individual
- Remove from Milestone
- IOR Verification

Close Window

Add Test/Inspection from Master List

Master Inspection List

Show entries

Search:

KeyId ↑	Item ↑	Description ↑	↑
SI-E1	Available Fault and Short-Circuit Current Field Marking per Approved Coordination Study		Inspection Added
SI-E2	Essential Electrical System Circuit Breaker Selection and Settings per Approved Coordination Study		Inspection Added
SI-E3	Elevator Circuit Breaker Selection and Settings per Approved Coordination Study		Inspection Added
SI-E4	Fire Pump Circuit Breaker Selection and Settings per Approved Coordination Study		Inspection Added
SI-E5	Arc Energy Reduction		Inspection Added
SI-E6	Short-Circuit Current Calculations		Inspection Added
SI-E7	Arc Flash Hazard Warning		Add Inspection
SI-F1	Sprayed Fire-Resistant Materials	Spray-applied fireproofing	Add Inspection
SI-F2	Mastic and Intumescent Fire-Resistant Coatings	In accordance with AWCI 12-B	Add Inspection
SI-F3	Penetration Firestops	Penetration firestop systems that are tested and listed	Add Inspection

Questions?



Item #6

Standard Details Update

- Discussion and public input

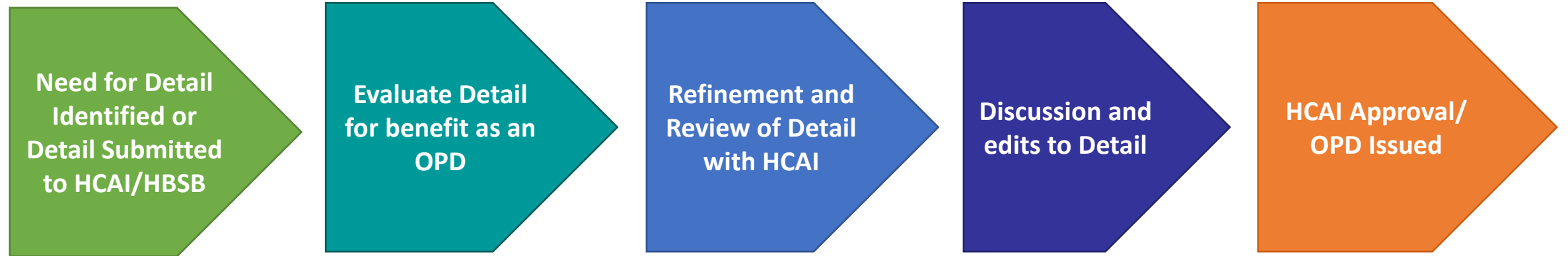
Facilitator: Gary Dunger, Executive Director, Design and Construction, Cedars-Sinai Health System; Committee Member (or designee)

6. Standard Detail Update

Facilitator: Gary Dunger, Committee member (or designee)

- Discuss Skilled Nursing Facility standard detail types needed
- Discussion and public input

HCAI PRE-APPROVED DETAILS (OPD) DEVELOPMENT PROCESS



CRITERIA FOR EVALUATING CANDIDATE DETAIL FOR OPD PROGRAM

1. Detail to be applicable to numerous projects
2. Detail to be non-proprietary
3. Other Criteria?

POTENTIAL TYPES OF HCAI PRE-APPROVED DETAILS

- Wood framed SNF Details
 - Interior non-bearing?
 - Fire wall construction?
 - Shell construction may be problematic due to the number of variables involved
 - An improvement that we might realize would be trimming down the OPD-0001 details to the lower importance factors that apply to SNFs.
- Corridor Handrail (may be already covered in FREER)?
- Frequently used MEP details?

PROPOSED DETAILS FOR CONSIDERATION

- Head-of-wall details for non-bearing walls terminating at roof framing (joists or trusses)
- Head-of-wall details for non-bearing fire barriers terminating at the underside of roof sheathing
- Fire blocking at soffits and ceilings with differing heights
- Structural connections through GWB at fire-resistance-rated walls (can the connection sandwich the wallboard or is a wood-to-connection required?)
- Suspended ceiling hanger wire, splay wire and uplift-strut strut connections (can the connection sandwich the ceiling wallboard or is a wood-to-connection required?)
- Corridor construction, particularly where ceiling heights in rooms differ from corridors
- Tube steel column protection inside rated walls
- Saddle protection at the tops of columns – is the saddle part of the column, requiring individual encasement, or is it part of the joist/truss system, where membrane protection is permitted?
- Eave vents – how is the 1-hour ceiling roof assembly maintained where eave vents are installed?

Item #7

Comments from the Public/Committee Members on Issues not on this Agenda

The Committee will receive comments from the Public/Committee Members. Matters raised at this time may be taken under consideration for placement on a subsequent agenda.

Facilitator: Michael O'Connor (or designee)

Item #8 Adjournment

Future Codes and Processes Committee meeting:

- September 11, 2024