

# Hospital Building Safety Board

Full Board Meeting  
April 18, 2024



**\*\*\* SPECIAL NOTICE \*\*\***

This meeting will be held in-person at the Department of Health Care Access and Information (HCAI) office in Sacramento, as well as by teleconference.

Board members must attend this meeting in person. HCAI staff and members of the public may fully participate from their own locations.

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



## Hospital Building Safety Board Full Board Meeting

### AGENDA

April 18, 2024

10:00 a.m. – 4:00 p.m.

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

#### Location:

[2020 West El Camino Ave, Conference Room 900, Sacramento, CA 95833](#)

[Teams Meeting Access](#); Meeting ID: 277 735 261 898; Passcode: YGwNu3

Call in: (916) 535-0978; Phone Conference ID: 161 673 656#

- Item #1      Call to Order and Welcome  
*Facilitator: Louise Belair, PE, LEED AP, Board Chair (or designee)*
- Item #2      Roll Call and Meeting Advisories/Expectations
- Determination of Quorum
  - Conduct of Meeting
- Facilitator: Veronica Yuke, Acting Executive Director (or designee)*
- Item #3      Department of Health Care Access and Information (HCAI) Update
- Swearing-in Ceremony for new HBSB members:
    - Jennifer G. Cox, BSN, RN, PHN, CIC, Public Member Representative
    - Courtney B. Johnson, PG, CEG, Engineering Geologist Representative
  - HCAI Update
  - Discussion and public input
- Facilitator: Elizabeth Landsberg, Director, HCAI (or designee)*

- Item #4 Overview and approval of the December 5 – 6, 2023, Full Board draft Meeting Report/Minutes
- Discussion and public input
- Facilitator: Louise Belair (or designee)*
- Item #5 Ad Hoc Board Procedures Committee
- Overview and approval of the December 5, 2023, draft Meeting Report/Minutes
  - Discussion and public input
- Facilitator: Michael Foulkes, Committee Chair (or designee)*
- Item #6 Codes and Processes Committee
- Overview and approval of the following draft Meeting Reports/Minutes:
    - January 10, 2024
    - February 21, 2024
  - Discussion and public input
- Facilitator: Michael O'Connor, Committee Chair (or designee)*
- Item #7 Instrumentation Committee
- Overview and approval of the January 25, 2024, draft Meeting Report/Minutes
  - Discussion and public input
- Facilitator: Farzad Naeim, PhD, SE, Esq., Committee Chair (or designee)*
- Item #8 Structural and Nonstructural Regulations Committee
- Overview and approval of the March 6, 2024, draft Meeting Report/Minutes
  - Discussion and public input
- Facilitator: Farzad Naeim, Committee Vice-Chair (or designee)*
- Item #9 Education and Outreach Committee
- Overview and approval of the February 8, 2024, draft Meeting Report/Minutes
  - Discussion and public input
- Facilitator: Scott Mackey, AIA, Committee Chair (or designee)*

- Item #10      Offsite Fabrication/Preassembled Components Webinar Development Subcommittee
- Overview and approval of the February 28, 2024, draft Meeting Report/Minutes
  - Discussion and public input
- Facilitator: Cody Bartley, Committee Chair (or designee)*
- Item #11      Appoint a Nominating Committee for Chair and Vice-Chair elections at the August 2024, Full Board meeting
- Discussion and public input
- Facilitator: Louise Belair (or designee)*
- Item #12      Office of Statewide Hospital Planning and Development (OSHPD) Update
- Workload and performance
  - Personnel changes
  - Discussion and public input
- Facilitator: Chris Tokas, SE, F.SEAOC, CBO, Deputy Director (or designee)*
- Item #13      Building Standards Unit (BSU) Update
- Update on BSU accomplishments year-to-date
  - Discussion and public input
- Facilitator: Mia Marvelli, Architect, Supervisor (or designee)*
- Item #14      Inspection Services Unit (ISU) Update
- Update on ISU accomplishments year-to-date
  - Discussion and public input
- Facilitator: Joe LaBrie, SE, Regional Compliance Officer (or designee)*
- Item #15      Fire Prevention Unit (FPU) Update
- Update on FPU accomplishments year-to-date
  - Discussion and public input
- Facilitator: Nanci Timmins, Chief Fire and Life Safety Officer (or designee)*

- Item #16      Structural Services Section Update
- Update on Structural Service Section accomplishments year-to-date
  - Discussion and public input

*Facilitator: Roy Lobo, PhD, SE, Principal Structural Engineer (or designee)*

- Item #17      Comments from the Public/Board Members on issues not on this agenda  
The Board will receive comments from the Public/Board Members. Matters raised at this time may be taken under consideration for placement on a subsequent agenda.

*Facilitator: Louise Belair (or designee)*

- Item #18      Adjournment

Appointed Members: Louise Belair, PE, LEED AP, Board Chair  
Jim O. Malley, SE, Board Vice-Chair  
Cody Bartley  
David Bliss, MD  
Michael L. Davis  
Gary Dunger  
Teresa Endres, AIA  
Michael Foulkes  
John Griffiths, PE  
Janice Cheung, PE  
Martin B. Hudson, PhD, PE, GE  
Scott Mackey, AIA  
Farad Naeim, PhD, SE, Esq

Director-Appointed

Ex-Officio Members: Bert Hurlbut  
Michael O'Connor

Ex-Officio Members: Elizabeth Landsberg, HCAI Director  
Daniel Berlant, State Fire Marshal  
Wendy Collins (Delegate)  
Jeremy Lancaster, State Geologist  
Jennifer Thornburg (Delegate)  
Kevin Day (Acting), Building Standards Commission, Executive Director  
Irina Brauzman (Delegate)

Tomás J. Aragón, MD, Dr. PH, Department of Public Health,  
Director

Nathaniel Gilmore (Delegate)  
Chris Tokas, OSHPD Deputy Director

HBSB

Executive Director: Veronica M. Yuke (Acting)

The **Hospital Building Safety Board** agenda and other notices about meetings are posted online and can be found by searching for **Hospital Building Safety Board** and meeting month at <https://hcai.ca.gov/public-meetings>.

For further information about this meeting, please contact Evett Torres or Marcus Palmer at (916) 440-8300, [HBSBSupportStaff@hcai.ca.gov](mailto:HBSBSupportStaff@hcai.ca.gov), or send a letter to The Department of Health Care Access and Information, 2020 West El Camino Avenue, Sacramento, CA 95833.

The Board may take action under any agenda item.

Every effort will be made to address each agenda item as listed. However, the agenda order is tentative and subject to change without prior notice. Items not listed on the agenda will not be considered. The Board may take a 30- to 90-minute break during the meeting. Members of the public are NOT required to identify themselves or provide other information to attend or participate in this meeting.

If Microsoft Teams requires a name, you may enter "Anonymous". You may also input fictitious information for other requested information if required to attend the meeting (e.g., [anonymous@anonymous.com](mailto:anonymous@anonymous.com)).

This meeting is accessible to persons with a disability. A person who needs a disability-related accommodation or modification in order to participate in the meeting may make a request by contacting Evett Torres or Marcus Palmer at [HBSBSupportStaff@hcai.ca.gov](mailto:HBSBSupportStaff@hcai.ca.gov) or sending a written request to HBSB Staff at 2020 West El Camino Avenue, Sacramento, CA 95833. Providing your request at least five (5) business days before the meeting will help ensure availability of the requested accommodation.

**Sacramento Office:**

Free parking is available around the building. Please do not park in reserved spaces.

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# HCAI Update

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## New Hospital Building Safety Board Members

### Public Member Representative:

**Jennifer G. Cox, Registered Nurse**, is certified in infection control and has 24 years of experience as a nurse, primarily in infection prevention. She is the System Director of Epidemiology and Infection Prevention at University of California, Irvine Health, a 459-bed academic medical center in Orange, California. Ms. Cox also leads infection prevention involvement in construction and renovation projects throughout the service area, including in the new hospital building project currently underway.

Prior to joining UCI Health, Ms. Cox was the Director of Infection Prevention at Kaiser Permanente, Downey Medical Center, where she was integral during the COVID-19 pandemic response. She translated literature and guidelines into action and practice across the continuum of care and provided education and guidance on operational needs of the organization throughout the phases of the pandemic. Ms. Cox also collaborated with senior leadership to develop a strategic plan to integrate an infection prevention strategy into broad patient safety initiatives to guide the delivery of quality patient care while ensuring staff and physician safety.

Ms. Cox earned a Baccalaureate in Science of Nursing from Humboldt State University in Arcata, California.

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### Engineering Geologist Representative:

**Courtney B. Johnson, Professional Geologist**, is a certified engineering geologist with 17 years of experience. As the Principal Engineering Geologist at Slate Geotechnical Consultants, she has conducted geotechnical field investigations, geologic reconnaissance, and performed seismic hazard studies for a variety of projects throughout California, the United States, and abroad.

Ms. Johnson was the Geologist and Project Manager for engineering geologic and geotechnical engineering evaluations for HCAI Structural Performance Category-4D regulation of three Kaiser Permanente hospital campuses, and 11 hospital buildings at four Dignity Health campuses. She has been a member of the Association of Environmental and Engineering Geologists for 15 years and served as co-chair of the Association's Geologic and Seismic Safety Hazards Technical Working Group.

Ms. Johnson obtained a Bachelor of Science from Pacific Lutheran University in Tacoma, Washington, and a Master of Science in Geosciences from Pennsylvania State University in State College, Pennsylvania.

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# Full Board

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Draft Meeting Report/Minutes

December 5 - 6, 2023

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2020 West El Camino Avenue, Suite 800  
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**HOSPITAL BUILDING SAFETY BOARD  
Full Board Meeting**

**Tuesday, December 5, 2023  
1:00 p.m. – 4:00 p.m.**

**Wednesday, December 6, 2023  
9:00 a.m. – 3:00 p.m.**

**Teleconference Meeting**

Day 1- Access Code: 586 355 929  
Day 2- Access Code: 740 313 837

**Appointed Members Present**

- Louise Belair, Chair
- Scott Jackson, Vice Chair
- Cody Bartley
- David Bliss
- Janice Cheung
- Michael Davis
- Gary Dunger
- Teresa Endres
- Michael Foulkes
- John Griffiths
- Martin Hudson
- Michele Lampshire
- Marshall Lew
- Scott Mackey
- Jim Malley

**HBSB Staff Present**

- Veronica Yuke, Acting Executive Director
- Evet Torres

**Ex-Officio Members Present**

- Scott Christman, HCAI Director Delegate
- Wendy Collins, State Fire Marshall Delegate
- Jennifer Thornburg, State Geologist Delegate
- Kevin Day, BSC Executive Director
- Nathaniel Gilmore, CDPH Delegate
- Chris Tokas, OSHPD Deputy Director

**Director-Appointed Ex-Officio  
Members Present**

- Bert Hurlbut
- Michael O'Connor

**HCAI Staff Present**

- Arash Altoontash
- Richard Tannahill
- Joe LaBrie
- Roy Lobo
- Mia Marvelli
- Nanci Timmins
- John Gray

1 **1. Call to order and Welcome**

2 Louise Belair, Board Chair, called the meeting to order on December 5, 2023, at 1:00  
3 p.m., and HBSB Veronica Yuke, Acting HBSB Executive Director, called roll.  
4

5 **2. Roll Call and Meeting Advisories/Expectations**

6 Eight members of the Committee present constitute a quorum. There being twelve  
7 present at the time of roll, a quorum was established.  
8

9 Ms. Yuke read the public announcement regarding meeting rules and procedures.  
10

11 **3. Nomination and election to fill the unexpired Vice-Chair vacancy**

12 **Presenter:** Louise Belair, Board Chair  
13

14 Ms. Belair announced that Mr. Jackson was retiring, hence the vice chair position  
15 needed to be filled.  
16

17 Ms. Belair nominated Mr. Malley as the Board vice-chair for the remainder of the term  
18 that will end in 2024.  
19  
20

21 **Discussion and Input**

- 22 • None  
23

24 **MOTION:**

25 The board unanimously voted to nominate Jim Malley as the Board vice-chair.  
26

27 **Informational and Action item**

- 28 • None  
29

30 **4. Department of Health Care Access and Information (HCAI) Update**

31 **Presenter:** Scott Christman, HCAI Chief Deputy Director  
32

33 Scott Christman stated that the governor's proposed budget was estimated to be  
34 released on January 10, 2024.  
35

36 Mr. Christman highlighted the 50th anniversary of the Song-Brown Healthcare  
37 Workforce Training Act, emphasizing its significance in supporting primary care training,  
38 particularly for family physicians, family nurse practitioners, physician assistants,  
39 registered nurses, and midwives.  
40

1 Mr. Christman acknowledged that 2023 marked the 50th anniversary of the Alfred E.  
2 Alquist Hospital Seismic Safety Act.

3

4 Mr. Christman stated that legislation bill SB 525 was a minimum wage law gradually  
5 implementing a \$25 minimum wage for healthcare employees, featuring various phase-  
6 in wage schedules based on employer type and size. He discussed that the law  
7 incorporated a waiver process for clinics, allowing them to apply for a temporary pause  
8 or an alternative phase-in schedule under specific hardship conditions primarily related  
9 to financial distress.

10

11 Mr. Christman talked about SB 326, an administration-sponsored bill that expanded the  
12 existing Mental Health Services Act to the Behavioral Health Services Act, aiming to  
13 offer essential services and housing support to individuals with substance use disorders  
14 and mental health challenges.

15

16 Mr. Christman stated that additional bills related to HCAI included:

- 17 • SB 779 - introduced new statutory requirements to expand data collection  
18 from California clinics.
- 19 • AB 1392 - focused on expanding the hospital supplier diversity program.
- 20 • AB 1471 - addressed seismic compliance milestones for specific hospitals.
- 21 • AB 242 contributed to a new bill allowing critical access hospitals to employ  
22 physicians directly.

23

24 Mr. Christman highlighted HCAI accomplishment programs:

- 25 • The Distressed Hospital Loan Program had 30 applications and offered loans to  
26 17 hospitals.
- 27 • HPD program released first data product in 2023.
- 28 • OHCA new efforts to slow healthcare spending growth through engagement  
29 with healthcare stakeholders, sibling state departments, and the public.

30

### 31 **Discussion and Input**

32 Mr. Tokas stated that the purpose of the Board is to provide advice to the Director of  
33 HCAI on the administration of hospital facilities, specifically in relation to the  
34 requirements and mandates outlined in the Seismic Safety Act.

35

36 Mr. Tokas swore in new HBSB members Janice Cheung, Fire/Life Safety  
37 Representative; and Martin Hudson, Geotechnical Engineer Representative.

38

1 Mr. Tokas also recognized outgoing HBSB members Bruce Clark, Engineering  
2 Geologist Representative; Scott Jackson, Fire/Life Safety Representative;  
3 Michele Lampshire, Public Member Representative; and Marshall Lew, Geotechnical  
4 Engineer Representative; and thanked them for their excellent work.

5  
6 Mr. Bliss asked if the corporate practice of medicine exception was time limited. Mr.  
7 Christman answered that the pilot was time limited but AB242 lifted the timing.

8  
9 **Informational and Action item**

- 10 • None  
11

12 **5. Overview and approval of the August 17, 2023, Full Board draft Meeting**  
13 **Report/Minutes**

14 **Presenter:** Louise Belair, Board Chair  
15

16 Ms. Belair gave a review of the August 17, 2023, Full Board meeting. The topics  
17 discussed were:

- 18 • **Topic 1:** Call to Order and Welcome.
- 19 • **Topic 2:** Roll Call and Meeting Advisories/Expectations.
- 20 • **Topic 3:** HCAI Update – Elizabeth Landsberg, HCAI Director
- 21 • Swearing in new HBSB Board members
- 22 • Micheal Davis – Inspector of Records Representative
- 23 • Teresa Endres – Architect Representative
- 24 • Sharon Goei – Local Building Official Representative
- 25 • Recognition of outgoing HBSB Board members
- 26 • Deepak Dandekar – Architect Representative
- 27 • David Khorram – Local Building Official Representative
- 28 • Ms. Landsberg gave an update on bills and budgets:
- 29 • HCAI distributed funds for Healthcare Workforce Department
- 30 • HCAI formed Racial Equity Team
- 31 • HCAI overseeing CalRx Biosimilar Insulin Initiative
- 32 • **Topic 4:** Overview and approval of the April 20, 2023, Full Board draft  
33 Meeting Report/Minutes – Scott Jackson, Board Vice-chair
- 34 • Highlights were:
- 35 • Recognition of outgoing Board Member: Mike Hooper – IOR  
36 (Inspector of Records) representative.
- 37 • Bagley Keene Open Meeting Act Presentation.

- 1                   ▪ Review and approval of December 7 and 8, 2022, Full Board  
2                   Meeting.
- 3                   ▪ Committee Report Overview and approval: Code and Processes,  
4                   Instrumentation, Structural and Non-Structural Regulations, Ad Hoc  
5                   Board Procedures, Education and Outreach.
- 6                   ▪ OSHPD Updates and highlights were reviewed.
- 7                   ▪ Healthcare Microgrids Updates.
- 8                   ▪ Leadership Training for Board Members.
- 9           • **Topic 5:** Energy Conservation and Management Committee – Scott Jackson,  
10           Committee Chair
  - 11           • Overview and approval of March 16, 2023, draft meeting  
12           report/minutes.
  - 13           • Highlights were:
    - 14           ▪ Presentations on the following topics:
      - 15           ▪ Aircuity Hospital Application.
      - 16           ▪ Supply Chain and Climate Impacts on Healthcare Design and  
17           Construction.
    - 18           • Review of goals for 2024
- 19           • **Topic 6:** Structural and Non-Structural Regulations Committee – Jim Malley,  
20           Committee Chair.
  - 21           • Overview and approval of April 11, 2023, draft meeting report/minutes.
  - 22           • Highlights were:
    - 23           ▪ Discussion of findings and lessons from the Turkey earthquake.
    - 24           ▪ Updates to PIN 62 – OSHPD Preapproval of Manufacturer’s  
25           Certifications (OPM).
    - 26           ▪ Testing criteria for allowable load rating of vibration isolators.
    - 27           ▪ Committee Goals for 2023.
- 28           • **Topic 7:** Codes and Processes Committee – Michael O’Connor, Committee  
29           Chair.
  - 30           • Overview and approval of the May 9, 2023, draft meeting  
31           report/minutes.
  - 32           • Highlights were:
    - 33           ▪ Introduction of Mia Marvelli as the new Building Standard Unit  
34           Supervisor.
    - 35           ▪ 2024 California Electrical Code Cycle Part 3 – proposed changes.

- 1                   ▪ Update on eTIO Development.
- 2                   ▪ Standard Details Update.
- 3       • **Topic 8:** Offsite Fabrication/Preassembled Components Webinar
- 4       Subcommittee of the Education and Outreach Committee – Cody Bartley –
- 5       Subcommittee Chair.
- 6                   • Overview and Approval of June 21, 2023, and June 27, 2023, draft
- 7                   meeting report/minutes.
- 8                   • Highlights were:
- 9                   ▪ June 21, 2023: Discussed media, intent of webinar, presentation
- 10                  order.
- 11                  ▪ June 27, 2023: Review slide content, discuss PCS examples, and
- 12                  receive public comments.
- 13       • **Topic 9:** Topic 9: OSHPD Update - Chris Tokas, OSHPD Deputy Director.
- 14                  • Review the purpose of HCAI strategic planning.
- 15                  • Review of HCAI core values and guiding principles
- 16                  • Description of HCAI operational plan to achieve established goals.
- 17                  • Update on HCAI review and field performance.
- 18                  • Achievements:
- 19                  ▪ A2511 Guide has been published.
- 20                  ▪ FREER Manual has been updated.
- 21                  • Information about NPC-5 Water Rationing Plan guide.
- 22       • **Topic 10:** Inspection Service Unit - Joe LaBrie, Inspection Services Unit
- 23       Supervisor.
- 24                  • Overview of progress of goals of the Inspection Services Unit:
- 25                  ▪ Field Operation Manual
- 26                  ▪ HICE Exams
- 27                  ▪ IOR Training Program
- 28                  ▪ CO Training
- 29                  ▪ IOR Mobilization Survey
- 30                  ▪ Field Brief Advice
- 31                  ▪ Tip of the Day
- 32                  ▪ eTIO

- 1                   ▪ HBSB Seminar
- 2                   ▪ Safety Training
- 3                   ▪ Enhanced Monitoring
- 4           • **Topic 11:** Building Standards Unit Update – Mia Marvelli, Building Standards
- 5           Unit Supervisor.
- 6                   • Update on Building Standards Unit launching into the 2024 Triennial
- 7                   Code Adoption Cycle.
- 8                   • Announcement of coordination council meeting at the end of
- 9                   September between leaders of multiple state agencies on code
- 10                  changes.
- 11                  • Call for applications for the code advisory committee to review code
- 12                  changes for technical merit.
- 13                  • California Building Standards Commission is seeking representatives
- 14                  for acute care hospitals, skilled nursing facilities, and primary and
- 15                  specialized clinics.
- 16                  • Update on HCAI/CDPH coordination.
- 17                  • Update on HCAI/California Administrative Code Coordination.
- 18                  • HCAI / AIA Collaboration through different CA Chapters.
- 19                  • OSHPD Seminar – Tips from the Experts.
- 20
- 21           • **Topic 12:** Structural Service Section Update – Ali Sumer
- 22                   • Report on inventory of buildings of SPC categories
- 23                   • Focus on AB 2190 – SPC 1 buildings - report on progress to
- 24                   compliance.
- 25                   • Introduction of NPC 4D Building operational plan tab on Facility Detail
- 26                   website page.
- 27                   • Report on AB1882 public notices and annual status updates.
- 28                   • Discussion about upcoming Seismic Compliance Unit webinars.
- 29
- 30           • **Topic 13:** Comments from the public/board members not on this agenda –
- 31           Michael O'Connor.
- 32                   • Discussion about feedback from the Maui wildfire experience – The
- 33                   National Fire Protection Department has provided input on their
- 34                   website.

- 1           • **Topic 14:** Adjournment – Michael O’Connor.  
2                   • The meeting adjourned on August 17, 2023, at approximately 2:55 pm.  
3

4 **Overview of motions**

- 5           • Motion 1: The board unanimously voted to approve the April 20, 2023, Full  
6 Board meeting and Leadership Training for Board Members draft  
7 Report/Minutes as presented.
- 8           • Motion 2: The board unanimously voted to approve the March 16, 2023,  
9 Energy Conservation and Management Committee draft Meeting  
10 Report/Minutes as presented.
- 11          • Motion 3: The board unanimously voted to approve the April 11, 2023,  
12 Structural and Non-Structural Regulations Committee Draft Meeting  
13 Reports/Minutes as presented.
- 14          • Motion 4: The board unanimously voted to approve the May 9, 2023, Codes  
15 and Processes Committee draft Meeting Report/Minutes with correction.
- 16          • Motion 5: The board unanimously voted to approve the June 21, 2023, and  
17 June 27, 2023, Offsite Fabrication/Preassembled Components Webinar  
18 Subcommittee of the Education and Outreach Committee as presented.

19  
20 **MOTION: [Belair/Foulkes]**

21 The board unanimously voted to approve the August 17, 2023, Full Board Meeting draft  
22 report/minutes.

23

24 **Information and Action item**

- 25           • None  
26  
27

28 **6. Energy Conservation and Management Committee**

29 **Presenter:** John Griffiths, Committee Vice-Chair  
30

31 Mr. Griffiths gave an overview of the October 25, 2023, draft meeting report/minutes.

32 Mr. Griffiths stated that the October 25, 2023, meeting highlighted:

- 33           • Microgrid Task Force Updates  
34           • Intervening code cycle changes for the California Electrical Code.  
35           • Microgrid Project at KP San Marcos Med Center.

- 1           • Microgrid components.

2

3 Mr. Griffiths concluded that the Energy Conservation and Management Committee  
4 would pursue more topics for 2024 that included the following:

- 5           • Microgrid operations - under the new code implementations for Skilled  
6           Nursing Facilities.
- 7           • Practical applications- in California Medical facilities for indoor air quality  
8           monitoring.
- 9           • Diverse applications -for emergency power and their carbon footprint  
10          reductions.
- 11          • Goal setting for 2024.
- 12          • Research application for Aircuity Inc.
- 13          • Code changes such as AB1125 impact SFNs.

14

15 **Discussion and Input**

- 16       • None.

17

18 **Information and Action item**

- 19       • None.

20

21 **MOTION: [Griffiths/Malley]**

22 The board unanimously voted to approve the Energy Conservation and Management  
23 Committee on October 25, 2023, draft meeting report/minutes.

24

25 **7. Education and Outreach Committee**

26 **Presenter:** Scott Mackey, Committee Chair

27

28 Mr. Mackey gave an overview of the May 24, 2023, Education and Outreach Committee  
29 meeting. He reported that the meeting focused on how the October 2023 Tips from the  
30 Experts seminar would be structured, and that the milestones included planning,  
31 presentation draft, final presentation preparation, and rehearsal of the seminar.

32 Mr. Mackey stated the meeting addressed other webinar topics that were on schedule:

- 1 • Off-Site Fabrication/Pre-Assembled Components – Webinar date still to be  
2 determined.
- 3 • California Administration Code – on hold until the end of the year.
- 4 • Policy Intent Notice (PIN) 50: Integrated Review – presentation materials due  
5 July 26, 2023.
- 6 • Emergency Process Design Guide – Final draft materials due July 26, 2023.
- 7 • OSHPD 3 Clinics – Presentation complete. Scheduling webinar for Spring  
8 2024.
- 9 • Testing, Inspection, and Observation Program – Webinar to be developed  
10 around the eTIO once activated.
- 11 • PINs and CANs – On hold pending further development.

12 Mr. Mackey stated that there were no motions presented in the May 24, 2023,  
13 Education and Outreach Committee meeting.

14

15 Mr. Mackey gave an overview of topics for the July 26, 2023, Education and Outreach  
16 committee meeting:

- 17 • Planning and development of 2023 Seminar:
- 18 • Confirmation of Seminar event dates: October 5, 2023, in Newark, CA; and  
19 October 10, 2023, in Irvine, CA.
- 20 • Breakdown of Seminar sessions, agenda, and resources presented.
- 21 • Confirmation of Presenters:
  - 22 ▪ Session 1 - Chris Tokas, Richard Tannahill.
  - 23 ▪ Session 2 - Gary Dunger, Burt Hurlbut, and Kelly Martinez.
  - 24 ▪ Session 3 - Joe LaBrie, Mike Hooper, and Monica Colosi.
  - 25 ▪ Session 4 - Richard Tannahill, Marshall Lew, Scott Mackey, Gary  
26 Dunger, Joe Malley, Louise Belair and John Griffiths.
  - 27 ▪ Closing Comments - Chris Tokas.
- 28 • General overview of each session topic by Scott Mackey, Mike Hooper, and  
29 Richard Tannahill.

30

31 Mr. Mackey said the committee discussed the following webinar topics status:

- 32 • California Administrative Code Webinar- currently on hold.

- 1 • Policy Intent Notice (PIN) 50 Webinar- Mr. Dunger reported the presentation  
2 was submitted to staff for review, focusing on electronic plan review and how  
3 owners or designers would interface with the program.
- 4 • Emergency Process Design Guide- Mr. Tannahill reported the guide was in  
5 the final review and formatting stage.
- 6 • PINs and CANs Webinar – Mr. Tannahill reported the presentation would be  
7 completed soon.

8 Mr. Mackey stated that there was a motion to approve the May 24, 2023, Education and  
9 Outreach committee meeting and was unanimously approved.

10

11 Mr. Mackey gave a review of the August 30, 2023, Education and Outreach Committee  
12 meeting in which there was a discussion on the planning and development for the 2023  
13 Seminar. The topics discussed were:

- 14 • Confirmation of Seminar rehearsal date: September 27, 2023.
- 15 • Ms. Martinez outlined Tips for Owners by organizing the work by phase.
- 16 • Mr. Lew outlined the Geologic Hazards section would be based on Note 48 of  
17 the code.
- 18 • Mr. Tannahill outlined the roles and responsibilities of the registered design  
19 professional in responsible charge – architecture.
- 20 • Mr. Malley outlined the roles and responsibilities of the structural engineer.
- 21 • Ms. Belair outlined the roles and responsibilities of the mechanical, electrical,  
22 and plumbing engineers.
- 23 • Discussion regarding the flow of the seminar, responsibilities for specific  
24 presenters, identifying who would be responsible for answering audience  
25 questions, and other location specifics.

26

27 Mr. Mackey said there was a motion to approve the July 26, 2023, Education and  
28 Outreach committee meeting report, which was unanimously approved.

29

30 Mr. Mackey reported on the September 27, 2023, Education and Outreach Committee  
31 meeting topics:

- 32 • Ms. Marvelli report on the status of the final edits/revisions to the Tips from  
33 the Experts Guide booklet that included:
- 34 ▪ Updated Preface section by Mr. Tokas.

- 1           ▪ Updated references to OSHPD, FDD and HCAI, staff names and  
2           terminology.
- 3           ▪ Removed Rapid Review Unit (RRU) references.
- 4           ▪ Added Geohazard tips.
- 5           ▪ Updated various code revisions, definitions, and changes to guidelines.
- 6           ▪ Each Session presented their materials with comments, questions,  
7           revisions, and additional information provided as requested during the  
8           process.
- 9           ▪ Rehearsal completed on time with each session reviewed with final  
10          comments and recommendations noted.
- 11         • Update on Small and Rural Hospital Relief Program Webinar:
  - 12           ▪ Mr. Scheuerman reported the webinar would occur on October 18,  
13           2023, and was presented by the Office of Health Facilities Loan  
14           Insurance within HCAI.
  - 15           ▪ The webinar covered the program overview, eligibility criteria, eligible  
16           projects, and specifics on the Grant Application Process.

17

18 Mr. Mackey stated that there were no motions presented at the September 27, 2023,  
19 Education and Outreach Committee meeting.

20

21 Mr. Mackey discussed the November 1, 2023, Education and Outreach Committee  
22 meeting topics:

- 23         • California Hospital Projects A to Z... 2023 Seminar Debrief:
  - 24           ▪ Report on the results of the 2023 Seminar Series – Tips from the  
25           Experts.
    - 26           ▪ Consensus: Events were successful with many compliments from  
27           attendees.
    - 28           ▪ Northern California group seemed more engaged and focused,  
29           while Southern California, although engaged and focused, also took  
30           advantage of the opportunity to network with presenters and other  
31           audience members.
    - 32           ▪ It was noted that future seminars should cover less information and  
33           slow down the presentations. Allow more networking time between  
34           sessions.
    - 35           ▪ Future events should focus on distributing sign-up information  
36           earlier.

- 1                   ▪ Having an option to extend events to 2 days to allow more time for  
2                   sessions and mixers.
- 3                   ▪ Consider a larger venue to accommodate more attendees- the limit  
4                   of 150 was tight.
- 5                   ▪ Mr. Tokas reported that feedback received from both written and  
6                   discussion was overwhelmingly positive and complimentary.
- 7                   ▪ Mr. Mackey commented that the combination of staff and non-staff  
8                   presenters emphasized the working relationship between these  
9                   groups exists and works.
- 10               • Update on Guide for Working on OSHPD Projects:
- 11                   ▪ Ms. Marvelli reported that a team of OSHPD staff and two Education  
12                   and Outreach committee members were working on finalizing the  
13                   Guide for publication.
- 14                   ▪ The update should be completed by January 2024, published by March  
15                   2024, and be posted to the website.
- 16                   ▪ Mr. Dunger requested that the Guide include reference to and use of  
17                   the electronic services portal (eSP) and acknowledge its importance  
18                   and relevance.
- 19                   ▪ Final review by the Education and Outreach committee is forthcoming.
- 20               • Update on Emergency Design Guide (EDG):
- 21                   ▪ Mr. Tannahill reported the draft of the EDG was completed with final  
22                   chapters being formatted and prepared for publication.
- 23                   ▪ The EDG would be completed between December 2023 and January  
24                   2024.
- 25                   ▪ Final review by the Education and Outreach committee- forthcoming.
- 26               • Update on Policy Intent Notice (PIN) 50 webinar:
- 27                   ▪ Mr. Dunger reported the materials for the webinar were still in  
28                   progress.
- 29                   ▪ Potential dates for this webinar to be considered in Spring 2024.
- 30               • Update on Offsite Fabrication/Preassembled Components webinar:
- 31                   ▪ Mr. Bartley reported the webinar was in its final stages of development.
- 32                   ▪ The projected date for this event would be February 2024.
- 33                   ▪ Mr. Tokas confirmed the event to be a webinar so as to reach a greater  
34                   audience.
- 35               • Opportunities for 2024:
- 36                   ▪ Difficulties faced in hospitals regarding the classification of imaging  
37                   procedures into Class 1, 2, and 3, including the associated regulations.

- 1           ▪ Revisit the inspect-to-pass approach and carry-over mentality about its
- 2           use.
- 3           ▪ Roll out OSHPD 6 and educational materials to apply to it.
- 4           ▪ Title 22 regulations related to Acuity Adaptable spaces.
- 5           ▪ Tips on how to work with OSHPD in the field.
- 6           ▪ Solar photovoltaic, battery systems, microgrids and fire alarms.
- 7           ▪ How to write a functional program and operational program in the
- 8           correct way to simplify the process of approval by the California
- 9           Department of Public Health (CDPH).

10 Mr. Mackey reported that there were no motions at the November 1, 2023, Education  
11 and Outreach Committee meeting.

12

13 Mr. Mackey gave an overview of the October 5 and 10, 2023, “Tips from the Experts”  
14 Seminar. The seminar was divided into 4 sessions at each location:

- 15           • HCAI/OSHPD Topics:
  - 16           ▪ History of the Guide.
  - 17           ▪ 5 W’s = Who, What, When, Where, and Why?
  - 18           ▪ 7 Areas of OSHPD responsibility.
  - 19           ▪ OSHPD Quality of Service Survey.
  - 20           ▪ Appeals, Services and Electronic Services Portal (eSP).
- 21           • Tips for the Owners addressed:
  - 22           ▪ Organizing the Work.
  - 23           ▪ Project Selection / Identification Phase.
  - 24           ▪ Project Planning, Design, Permit and Construction Phases.
  - 25           ▪ Project Close-out Phase.
- 26           • Working with OSHPD included:
  - 27           ▪ Inspector of Record Guidelines.
  - 28           ▪ Testing, Inspection and Observation (TIO) Guidelines.
  - 29           ▪ Working with OSHPD Field Staff.
- 30           • HCAI/OSHPD Roles and Jurisdiction:
  - 31           ▪ Overview of Roles and Jurisdiction.
  - 32           ▪ Geologic Hazards.
  - 33           ▪ Architect’s Roles and Responsibilities.

- 1           ▪ Structural Engineer’s Roles and Responsibilities.
- 2           ▪ Mechanical, Electrical and Plumbing Roles and Responsibilities.

3 Mr. Mackey reported that 143 people attended the seminar in Newark, and 152  
4 attended the Irvine seminar. Overall, there was a positive response, with general  
5 satisfaction and interest expressed in organizing similar events in the future.

6

7 **Discussion and input**

8 Mr. Griffiths asked if the seminar videos were available on YouTube. Mr. Tokas  
9 answered that the video was not available yet.

10

11 **Information and Action item**

- 12 • None.

13

14 **MOTION: [Mackey/ Bliss]**

15 The board unanimously voted to approve the Education and Outreach Committee draft  
16 meetings/reports for May 24, 2023; July 26, 2023; August 30, 2023; September 27,  
17 2023; and November 1, 2023.

18

19 **8. Codes and Processes Committee**

20 **Presenter:** Michael O’Connor, Committee Chair

21 Mr. O’Connor reported on the August 14, 2023, Codes and Processes Committee  
22 meetings. The topics discussed were:

- 23 • Topic 1 - California Building Standards Codes Revision for the 2022  
24 Intervening Code Cycle.
  - 25       ▪ During California Building Standards Commission) June and August  
26 Commission meetings all HCAI Code packages were approved for  
27 adoption.
  - 28       ▪ Publication period for (CBSC) and State Agency Review 8/20/3023 -  
29 12/2023.
  - 30       ▪ Publish Date: January 2024 (180 days).
  - 31       ▪ Effective Date: July 1, 2024.
- 32 • Topic 2 - 2024 Code Cycle Triennial Proposed Update.
  - 33       ▪ Mr. Schnick presented the California Electrical Code (CEC) proposed  
34 updates, including coordination with:
    - 35           ▪ 2023 National Electrical Code – NFPA 70.

- 1                                   ▪ Coordinate with OSHPD 6 – Chemical Dependency Recovery  
2                                   Hospital Buildings.

3 Mr. O'Connor reported that there were two motions at the August 14, 2023, meeting,  
4 which were:

- 5                   • Motion to approve the May 9, 2023, meeting reports/minutes as amended.
- 6                   • Motion to accept the proposed amendments to the Electrical Code for the  
7                   2024 code cycle.

8 Both motions were unanimously approved.

9  
10 Mr. O'Connor highlighted the October 17, 2023, the Codes and Processes Committee  
11 meeting. The topics were:

- 12                   • Building Standards Code Cycle Updates:
  - 13                                   ▪ 2022 California Building Standard Code, Title 24 Supplement  
14                                   (Intervening Code Cycle) - Ms. Marvelli reported that the 2022  
15                                   California Building Standard Code, Title 24 Supplement, was at the  
16                                   proofing stage by CBSC and State Agencies. Publication Date is  
17                                   January 2024.
  - 18                                   ▪ 2024 Triennial Code Adoption Cycle - Ms. Marvelli gave a timeline for  
19                                   the 2024 Triennial Code Adoption Cycle, stating that there were two  
20                                   mandatory due dates to the Building Standards Commission:
    - 21   ▪ Feb 2024 - submission of the California Mechanical Code  
22   (CMC), California Plumbing Code (CPC), and adoption of 2024  
23   Mechanical and Uniform Plumbing Codes.
    - 24   ▪ May 2024 – submission of the California Administrative Code  
25   (CAC), California Building Code (CBC) vol. 1 and 2, and the  
26   California Existing Building Code (CEBC).
- 27                   • California Mechanical Code, Part 4 of Title 24 proposed code changes:
  - 28                                   ▪ Coordinate OSHPD amendments with the ASHRAE 170, 2021 edition -  
29                                   The current version of the CMC follows the guidelines provided in the  
30                                   2013 edition of ASHRAE 170.
  - 31                                   ▪ Add essential power to cooling systems to align with federal  
32                                   requirements – NPC--5 requires a facility with minimum cooling for  
33                                   category 1 spaces to remain operational for 72 hours.
  - 34                                   ▪ Update CMC Chapter 4 requirements for class 1, 2 and 3 imaging -  
35                                   several CMC amendments were made to coordinate with imaging  
36                                   classification, including diffuser placement, ventilation, and filtration  
37                                   guidelines.

- 1 • California Plumbing Code, Part 5 of Title 24 proposed code changes:
  - 2 ▪ Plumbing fixture Table 4-2 for non-healthcare spaces under OSHPD -
  - 3 the Intervening cycle provided Table 4-2 for single reference for fixture
  - 4 count. Coordinating all spaces to ensure they are accounted for.
  - 5 ▪ Revised maximum hot water branch length for low flow fixtures and
  - 6 limit sensor-operated faucets in high-risk areas (legionella) - CPC
  - 7 613.6 limits hot water branch to 25ft. Low-flow faucets do not evacuate
  - 8 enough volume.
  - 9 ▪ Allow single restrooms for low occupancy spaces such as waiting -
  - 10 new exceptions specific to healthcare for public counts will be provided
  - 11 under CPC422.3.1.
- 12 • Update on Electronic Test, Inspection, and Observation (eTIO) Development -
- 13 eTIO was in the programming coding stage.
- 14 • Pre-Approved Detail Update - pre-approved details were developed to identify
- 15 areas of concern and challenges and would be presented at the next
- 16 Committee meeting.

17 Mr. O'Connor stated that the committee unanimously approved the October 17, 2023,

18 Codes and Processes Committee meeting report.

19

## 20 **Discussion and input**

- 21 • None.

22

## 23 **Information and Action item**

- 24 • None.

25

## 26 **MOTION: [O'Connor/ Foulkes]**

27 The board unanimously voted to approve the Codes and Processes Committee draft

28 meeting reports/minutes for August 14, 2023, and October 17, 2023.

29

## 30 **9. Instrumentation Committee**

31 **Presenter:** Jim Malley, Committee Vice-Chair

32 Mr. Malley gave a summary of the October 26, 2023, committee meeting. The topics

33 included:

- 1 • Topic 1: Review of the Fiscal Year 2022-23 HCAI/CSMIP Hospital  
2 Instrumentation Annual Report by the California Strong Motion  
3 Instrumentation Program (CSMIP).
  - 4 ▪ Introduction to Hospital Instrumentation Projects.
  - 5 ▪ Hospital Instrumentation Status:
    - 6 ▪ Type 1 - OSHPD-Funded Regular Instrumentation of Hospitals.
    - 7 ▪ Type 2 - Owner-Funded Instrumentation of New Hospitals with  
8 CSMIP Guidance and Assistance.
    - 9 ▪ Type 3 - Owner-Funded Instrumentation of Retrofitted Existing  
10 Hospitals with CSMIP Guidance and Assistance.
  - 11 ▪ Contract Budget Status.
  - 12 ▪ Hospital Instrumentation Upgrade under the California Statewide  
13 Strong-Motion Instrument Upgrades.
  - 14 ▪ Real Time Structural Monitoring.
- 15 • Topic 2: Annual HCAI update to the Committee regarding CSMIP.
- 16 • Topic 3: Approval of Final Copy of White Paper on “The Benefits of Strong-  
17 Motion Instrumentation in Hospital Facilities.

18 Mr. Malley reported that there was a motion to accept the final White Paper on the  
19 Benefits of Strong Motion Instrumentation.

## 20 **Discussion and input**

21 Mr. Mackey asked about the post-publication process of the White Paper. Mr. Tokas  
22 answered that the White Paper sets the groundwork for initiating discussions with  
23 various stakeholders about the value of instrumentation.

24 Mr. Griffiths asked if the White Paper would be publicly available. Mr. Tokas answered  
25 that the White Paper was publicly accessible on the HCAI website.

26 Ms. Belair noted a correction on the meeting report where the word hologram was used  
27 in place of hodogram on page 92, line 32 of the Full Board meeting binder.

## 28 **Information and Action item**

- 29 • None.

30

## 31 **MOTION: [Malley/Mackey]**

32 The board unanimously voted to approve the October 26, 2023, Instrumentation  
33 Committee draft report/minutes with corrections.

34

1 **10. Structural and Nonstructural Committee**

2 **Presenter:** Jim Malley, Committee Chair

3 Mr. Malley reviewed the November 7, 2023, Structural and Nonstructural Committee  
4 meeting. The topics discussed were:

- 5 • Topic 1 –Proposed Amendments to 2025 California Building Code, Title 24  
6 Part 1 (Mia Marvell and Ali Sumer, HCAI).
  - 7 ▪ Ms. Marvelli gave a timeline for the code amendments and a timeline for  
8 OSHPD and HBSB meetings.
  - 9 ▪ Mr. Sumer outlined the proposed amendments to the 2025 California  
10 Administrative Code, Title 24, Part 1, Chapter 6.
- 11 • Topic 2 - Proposed Amendments to 2025 California Building Code, Title 24  
12 Part 2 (Roy Lobo, Emil Von Roth, and Ali Sumer, HCAI).
  - 13 ▪ Mr. Lobo outlined the proposed amendments to the 2025 CBC, Title 24,  
14 Part 2:
    - 15 ▪ Adoption of ASCE 7-22, Chapter 16A.
    - 16 ▪ Adoption of ASCE 7-22, Chapter 19A
- 17 • Topic 3 –Proposed Amendments to 2025 California Building Code, Title 24  
18 Part 10 (Ali Sumer, HCAI).
  - 19 ▪ Mr. Sumer outlined the proposed amendments to the 2025 California  
20 Existing Building Code, Title 24, Part 10.

21 Mr. Malley stated that there was a motion to support the various amendments to the  
22 CBC Title 24 Parts 1, 2, and 10 presented during the meeting. The committee members  
23 unanimously voted to approve the motion.

24 **Discussion and input**

- 25 • None.

26

27 **Information and Action item**

- 28 • None.

29

30 **MOTION: [Malley/Foulkes]**

31 The board unanimously voted to approve the November 7<sup>th</sup>, 2023, Structural and  
32 Nonstructural Committee meeting draft report/minutes.

33

1 **11. Ad hoc Board Procedures Committee**

2 **Presenter:** Michael Foulkes, Committee Chair

3

4 **Discussion and input**

5 Mr. Foulkes stated that the Ad Hoc Board Procedures Committee had met on  
6 December 5, 2023, and discussed that in the absence or delegation by the Chair, the  
7 Vice Chair of the Board would take on the Chair’s responsibilities, and if the Chair was  
8 unable to complete the full term, the Vice Chair would assume the role until the end of  
9 the two-year term.

10 In the event a Vice Chair was unable to complete the full term, the Chair would  
11 nominate a board member at the next scheduled Full Board meeting, nominations  
12 would be taken from the floor, and elections conducted.

13

14 **Information and Action item**

- 15 • None.

16

17 **MOTION: [Foulkes/Malley]**

18 The board unanimously voted to approve the December 5, 2023, Ad Hoc Board  
19 Procedures Committee changes to the Board Policies and Procedures addressing the  
20 replacement of the Vice Chair should the Vice Chair become unable to serve out the  
21 full-term.

22

23 **12. Administration of process for filling Board Vice-Chair vacancy**

24 **Presenter:** Louise Belair, Board Chair

25 **Discussion and input**

26 Ms. Belair stated that beginning in April 2024, a nominating committee would seek  
27 nominations for the Chair and Vice Chair to serve during the 2025 and 2026 terms, with  
28 elections planned for the August 2025 Full Board meeting to ensure the positions were  
29 filled in time for the planning of the 2025 year.

30

31 **Information and Action item**

- 32 • None.

33

1 **13. Review and approve 2024 Committee Assignments, Goals and Meeting**  
2 **Calendar**

3 **Presenter:** Louise Belair, Board Chair

4  
5 Ms. Belair talked about HBSB 2024 committees:

6 • **Board Procedure committee:**

- 7 ▪ Committee members: Micheal Foulkes, Chair; and Gary Dunger, Vice-  
8 chair; Louise Belair; and Jim Malley.
- 9 ▪ HCAI representatives: Joe LaBrie and Carl Scheuerman.
- 10 ▪ The focus/goals of the committee:
  - 11 ▪ Update policies and procedures.
  - 12 ▪ Work with nominating committee and provide training for  
13 onboarding members.

14 • **Codes and Process Committee:**

- 15 ▪ Committee members: Micheal O'Connor, Chair; Teresa Endres, Vice-  
16 Chair; Cody Bartley; Louise Belair; Michael Davis; Gary Dunger;  
17 Sharon Goei; John Griffiths; Scott Mackey; Jim Malley; and  
18 Farzad Naeim.
- 19 ▪ Consulting members: Mark Hershberg, Kelly Martinez, and  
20 Belinda Young.
- 21 ▪ HCAI representatives: Brett Beekman, Larry Enright, Joe LaBrie,  
22 Roy Lobo, Bob Lyons, Mia Marvelli, Diana Navarro, Carl Scheuerman,  
23 Jamie Schnick, and Nanci Timmins.
- 24 ▪ Meeting dates: January 10, February 21, May 8, and September 11,  
25 2024.
- 26 ▪ The focus/goals of the committee:
  - 27 ▪ Update CANs and PINs to code.
  - 28 ▪ eTIO program.
  - 29 ▪ Evaluate standard details from SNFs (skilled nursing facilities).
  - 30 ▪ Title 24.

31 • **Education and Outreach Committee:**

- 32 ▪ Committee Members: Scott Mackey, Chair; Cody Bartley, Vice-Chair;  
33 Louise Belair; Michael Davis; Gary Dunger; Teresa Endres;  
34 Bert Hurlbut; Jim Malley; and Michael O'Connor.

- 1           ▪ Consulting members: Kelly Martinez, Bruce Rainey, Belinda Young,  
2           and Bill Zellmer.
- 3           ▪ HCAI representatives: Hussain Bhatia, Monica Colosi, Mia Marvelli,  
4           Jamie Schnick, and Nanci Timmins.
- 5           ▪ Meeting dates: February 8, May 22, August 1, and September 26,  
6           2024.
- 7           ▪ The focus/goals of the committee:
  - 8               ▪ Support the development of webinars.
  - 9               ▪ Develop a regular curriculum and predictable calendar for  
10              webinars.
  - 11              ▪ Revision to “Guide for Working on OSHPD Projects- Tips from  
12              Experts.”
  - 13              ▪ Emergency design guide.
  - 14              ▪ Webinars for Imaging Classes 1, 2, and 3.
  - 15              ▪ Emergency Design Guide seminar.
  - 16              ▪ Tips on how to work with OSHPD in the field.
  - 17              ▪ OSHPD 6 – chemical dependency (webinar).
  - 18              ▪ Inspect to Pass (Webinar).
  - 19              ▪ Work with instrumentation committee regarding  
20              webinar/seminars on instrumentation White Paper.
- 21       • **Energy Conservation and Management Committee:**
  - 22           ▪ Committee Members: Cody Bartley, Chair; John Griffiths, Vice-Chair;  
23           Louise Belair; David Bliss; Michael Foulkes; Sharon Goei;  
24           Gary Dunger; and Scott Mackey.
  - 25           ▪ Consulting members: Eric Johnson and David Lockhart.
  - 26           ▪ HCAI representatives: Larry Enright, Mia Marvelli, Carl Scheuerman,  
27           Jamie Schnick, and Nanci Timmins.
  - 28           ▪ Meeting dates: April 3 and October 9, 2024.
  - 29           ▪ The focus/goals of the committee:
    - 30               ▪ Identify HCAI research projects for energy conservation,  
31               reduction of carbon footprint, and cost saving while maintaining  
32               health and safety.
    - 33               ▪ Consider systems and monitoring devices for other  
34               environmental conditions.
    - 35               ▪ Pursue indoor air quality at a lesser energy cost for other  
36               environmental conditions.

- 1                   ▪ Optimize water usage in healthcare environments.
- 2       • **Instrumentation Committee:**
- 3                   ▪ Committee Members: Farzad Naiem, Chair; Jim Malley, Vice-Chair;
- 4                   Martin Hudson; Jennifer Thornburg.
- 5                   ▪ Consulting members: Hamid Haddadi, Moh Huang, and Tony Shakal.
- 6                   ▪ HCAI representatives: Hussain Bhatia, Erol Kalkan, Roy Lobo, and
- 7                   Ali Sumer.
- 8                   ▪ Meeting dates: January 25 and October 29, 2024.
- 9                   ▪ The focus/goals of the committee:
- 10                   ▪ Continue working with HCAI staff on scheduled instrumentation
- 11                   installation.
- 12                   ▪ Consider other systems and monitoring devices.
- 13                   ▪ Collaborate with CGS on prioritizing upgrades to existing
- 14                   instrumentation.
- 15                   ▪ Work with EO Committee regarding webinar/ seminar on
- 16                   instrumentation white paper.
- 17       • **Structural and Nonstructural Committee:**
- 18                   ▪ Committee members: Jim Malley, Chair; Farzad Naeim, Vice Chair;
- 19                   Cody Bartley; Louise Belair; Michael Davis; Teresa Endres;
- 20                   Sharon Goei; Martin Hudson; and Jennifer Thornburg.
- 21                   ▪ Consulting member: Mark Hershberg.
- 22                   ▪ HCAI representatives: Joe LaBrie, Roy Lobo, Mia Marvelli,
- 23                   David Neou, Carl Scheuerman, Jamie Schnick, and Ali Sumer.
- 24                   ▪ Meeting dates: March 6 and July 17, 2024.
- 25                   ▪ The focus/goals of the committee:
- 26                   ▪ Support HCAI with reviews of code changes.
- 27                   ▪ Support HCAI with review of new/revised PINs, CANs, OPDs.
- 28                   ▪ Implementation of SPC- 4D and NPC- 4D.
- 29                   ▪ Develop preapproved details.
- 30                   ▪ Seismic compliance issues related to NPC-3, NPC-4D, and
- 31                   NPC-5. Streamlining the process for compliance to meet the
- 32                   statutory and regulatory deadline.
- 33                   ▪ Review the code amendments that are now obsolete as those
- 34                   issues have been addressed on the model code.

- 1                   ▪ Develop and implement procedures and enforceable building
- 2                   standards to ensure safe and sustainable healthcare facilities.
- 3                   ▪ Consider new product materials and methods that would benefit
- 4                   the public by early adaptation rather than waiting for their
- 5                   incorporation in the building code.

6                   • **Technology and Research Committee:**

- 7                   ▪ Members: Gary Dunger, Chair; Cody Bartley, Vice-Chair; David Bliss;
- 8                   Teresa Endres; Michael Foulkes; John Griffiths; Bert Hurlbut;
- 9                   Scott Mackey; and Michael O'Connor.
- 10                  ▪ Consulting member: Benjamin Broder, Eric Johnson, Belinda Young.
- 11                  ▪ HCAI representatives: Hussain Bhatia, Larry Enright, Joe LaBrie,
- 12                  Carl Scheuerman, Jamie Schnick, Nanci Timmins.
- 13                  ▪ Meeting dates: June 4 and November 12, 2024.
- 14                  ▪ The focus/goals of the committee:
  - 15                    ▪ Explore subjects of telemedicine and robotics.
  - 16                    ▪ Discuss the effect of technologies on healthcare equity.
  - 17                    ▪ Explore emerging technologies that help reduce the carbon
  - 18                    footprint on healthcare facilities and implementation relative to
  - 19                    code implementation of energy tools related to the code.
  - 20                    ▪ Address how regular remote services e.g., medical records,
  - 21                    web-based nurse call, off-site server firms.
  - 22                    ▪ Define what is a medical record.
  - 23                    ▪ Monitor CDPH electronic health records redundancy issues in
  - 24                    case of a power failure and watch for potential code effects.
  - 25                    ▪ Invite industry members to address/inform the committee on the
  - 26                    reliability of cloud-based systems (fire alarm, energy monitoring,
  - 27                    etc.).
  - 28                    ▪ Explore wastewater solutions.

29  
30 Ms. Belair stated that there would be three Full Board meetings on April 18, August 15,  
31 and December 10 and 11, 2024.

32  
33 **Discussion and input**

34 Mr. Bliss asked if there was a design professional mentorship program from  
35 OSHPD/HCAI. Mr. Tokas stated that, yes, OSHPD/HCAI has a design professional  
36 mentorship program.

37

1 Ms. Endres asked what was deliverable of the items. Mr. Tokas answered that the goals  
2 would be discussed by committee members to establish the plans for the goals.

3

#### 4 **Information and Action item**

- 5 • None.

6

### 7 **14. Office of Statewide Hospital Planning and Development (OSHPD) Update**

8 **Presenter:** Chris Tokas, HCAI OSHPD Deputy Director

#### 9 **Discussion and input**

10 Mr. Tokas reviewed OSHPD top three objectives in 2023:

- 11 • Recruitment/Succession Planning – target critical positions.
- 12 • Web Page Redesign.
- 13 • Develop and integrate eTIO in eSP.

14

15 Mr. Tokas talked about OSHPD achievements in 2023:

- 16 • Successfully completed the adoption of proposed cost-effective building  
17 codes and standards submitted to the Building Standards Commission for  
18 adoption in the intervening cycle to better align with national standards.
- 19 • Advanced the capabilities of the EOC GIS Mapping system: New layers  
20 added, increased collaboration with CDPH and CalOES. EOC contact  
21 software Blackberry AtHoc tested and available for active use allowing the  
22 Incident Commander to activate EOC from any location/computer.
- 23 • Achieved significant progress in the Hospital Seismic Compliance Program.
- 24 • Numerous Technical staff training/stakeholder meetings (in person and  
25 remotely).
- 26 • Updated and published a new addition of the FREER Manual.
- 27 • Developed OSHPD Specialty Software for Analyzing Strong Motion Records.
- 28 • CAN-1-7-153(b) Amended Construction Document and clarifying use of Non-  
29 Material Alterations (NMAs).
- 30 • Updated PIN 55 and 62 and significantly reduced the backlog in our OSP and  
31 OPM preapproval programs with some strategic changes.
- 32 • Completed instrumentation of two HCAI funded hospital buildings.
- 33 • Added to the Expedited Building Permits XBP – Re-Roofing Guide.
- 34 • Updated and Published Advisory Guide A5 – NPC-5 Water Rationing Plan for  
35 Hospital Facilities.
- 36 • Developed additional tools and processes to improve staff plan review  
37 efficiencies.

- 1 • AB 2190, Successfully assisted hospitals to meet their (SPC-2) deadline due  
2 to OSHPD and CHA efforts - monthly meetings for each region to complete  
3 projects related to AB 2190.
- 4 • Various improvements to the Facility Detail portion of HCAI/OSHPD website.
- 5 • Successfully completed Electronic Plan Review Integrations: Taking eSP  
6 (Accela) to the next level.
- 7 • Software and hardware upgrades to facilitate and support Electronic Plan  
8 Review.
- 9 • Continue to further augment connection with industry using TIPS OF THE  
10 DAY and FIELD BRIEF ADVICE as a direct line of communication.
- 11 • Strengthened IOR training, education, and preparation, to increase the IOR  
12 exam pass rate.
- 13 • Continue to create coalitions/partnerships with other State Agencies  
14 responsible for the licensure of healthcare related services to establish a  
15 coordinated path for projects to be completed successfully and become  
16 operational expeditiously.
- 17 • Maintained plan review goals above 70% (77% of 1225 projects in 2023) all  
18 projects meeting their anticipated project approval dates (APAD).
- 19 • Geotechnical reviews completed in less than a month on average.
- 20 • Field Operation Manual: Updated, completed, and published.
- 21 • Tips from the Experts Manual: Updated, completed, and published.
- 22 • Field Staff Safety Training: 8 Hour Training Completed.

23 Mr. Tokas stated that the Freer Manual was updated, and checklist was made user  
24 friendly in September 2023.

25 Mr. Tokas highlighted that the 96 hour emergency power requirement for SNFs had  
26 been added to the health and safety code.

27 Mr. Tokas gave the NPC Compliance Timeframe for any General Acute Care Hospital in  
28 use as a General Acute Care (GAC) hospital building after January 1, 2030:

- 29 • By January 1, 2024: submit to the Office a complete nonstructural evaluation  
30 for each building.
- 31 • By January 1, 2026: submit to the Office construction documents ready for  
32 review by the Office.
- 33 • By January 1, 2028: obtain a building permit to begin construction.
- 34 • By January 1, 2030: the GAC building shall achieve NPC-5 rating.

35 Mr. Tokas said that CDPH published NPC-5 Water Rationing Plan Guide on June 30,  
36 2023.

1 Mr. Tokas stated that the Seismic Compliance Signage Implementation, AB 1882, in  
2 2023, was presented to the board and the implementation to be completed by the end  
3 of 2024.

4

5 Mr. Tokas highlighted Small and Rural Hospital Relief (SRHR) Program Progress to  
6 date on Hospital Participation and Grant Awards:

- 7 • 102 potentially eligible hospitals.
- 8 • 30 have initiated applications for program participation.
- 9 • 22 have submitted updated seismic compliance plans to fulfill application  
10 requirements.
- 11 • 10 participating hospitals have submitted grant applications, 3 of which have  
12 grant approvals pending.
- 13 • The remaining 72 facilities are under consideration for additional outreach to  
14 encourage engagement for technical assistance and potential future grants.

15 Mr. Tokas talked about OSHPD Specialty Software for Strong Motion Records:

- 16 • Software Requirement: Read COSMOS formatted V2 and V3 files - available  
17 commercial software lacking needed capabilities.
- 18 • HCAI/OSHPD Project to create needed software Python platform - Process  
19 and view interface for COSMOS formatted V2 files.

20 Mr. Tokas gave an update on the Emergency Operations Enhancements:

- 21 • Refresh all staff emergency supplies (Red Backpacks) – Completed.
- 22 • Update EOC Placards (Red, yellow, and green placards) – Completed and  
23 distributed.
- 24 • Enhance EOC GIS maps using ARCGIS Online and use of Survey  
25 123/Collect – Accounts created and in process of deployment.
- 26 • Improve communication between HCAI and CDPH/California Health and  
27 Human Services (CHHS) via database/Geographical Information Systems  
28 (GIS) links – In discussion.
- 29 • Enhance instrumented building EOC program to view building records.
- 30 • Complete and train staff on ESRI ArcGIS Survey123/Collect apps – Started.
- 31 • Activate additional features in Blackberry AtHoc for use in activating and  
32 deploying selected staff in smaller events.

33 Mr. Tokas talked on OSHPD's Top 3 Objectives for 2024:

- 34 • Improve consistency in the field Operations.
  - 35 ▪ Field staff performance.
  - 36 ▪ DPOR performance.

- 1           ▪ IOR observation.
- 2           ▪ IOR performance.
- 3       • Training Programs (Academies) fully functional by year end.
- 4           ▪ Fire life Safety Officer.
- 5           ▪ Field Compliance Officer.
- 6           ▪ Field Structural Engineer.
- 7       • Update the OSHPD Preapproved Details (OPDs).
- 8           ▪ Standard Partition Wall Details.
- 9           ▪ CBC Standard Suspended Ceiling Details.
- 10          ▪ CBC Standard Gypsum Board Ceiling Details.

11

## 12 **Information and Action item**

- 13 • None.

14

15

## 16 **15. Inspection Services Unit (ISU) Update**

17 **Presenter:** Joe LaBrie, ISU Supervisor, Bob Lyons, and James Pan, ISU

### 18 **Discussion and input**

19 Mr. Lyons stated that IORs were needed to serve on projects and currently Certified  
20 Hospital Inspector (CHIs) are underutilized.

21 Mr. Lyons talked about Certified Hospital Inspector Utilization - Study and  
22 Recommendations:

- 23           • The intent of this study was to determine the feasibility of using currently  
24           certified hospital inspectors to fulfill the need for more IORs.
- 25           • If feasible, what steps should HCAI take to increase IOR utilization?
- 26           • Increased use of current CHIs may be a more effective option over using  
27           outreach efforts to recruit new IORs or increasing the exam passing rate.

28 Mr. Lyons stated the steps taken to evaluate the feasibility of increasing the utilization of  
29 CHIs to serve as IORs:

- 30           • Evaluate the number of eligible currently certified hospital inspectors.
- 31           • Determine the current, apparently low, utilization rate of CHI's. Rough  
32           estimates show only half of CHIs work as IORs.

- 1           • Survey these CHIs to understand reasons for the low utilization rate and, if  
2           appropriate, what actions HCAI might be able to take to increase  
3           utilization.

4 Mr. Pan highlighted on the Certified Hospital Inspector Utilization evaluation of data:

- 5           • The internal IOR database includes records for about 2,400 individuals.  
6           • Of those, 780 were found currently eligible to serve as an IOR.  
7           • Of those, 360, or 50%, serve as the IOR on one or more current projects.  
8           • This confirms the apparent low utilization rate.

9 Mr. Pan reported that the survey results showed that the majority of IORs, whether  
10 actively involved with projects or not, favored a webpage that would help facilities locate  
11 IORs and that would allow IORs to search for projects in their desired work areas.

12 Mr. Pan mentioned a few key take-aways from the survey:

- 13           • Most IORs with active projects either have a well-developed client list, rely on  
14           word-of-mouth for work, or work with a hospital IOR Inspection services  
15           company to acquire projects.  
16           • Hospital IOR Inspection services company played a significant role in IOR  
17           placement on projects, especially on large projects.  
18           • Mentoring and ongoing training, such as webinars, were favored by many  
19           IORs.

20 Mr. Lyons recommended that:

- 21           • Webinars and seminars and other forms of ongoing education should focus  
22           on the business aspects of being an inspector of record.  
23           • Periodic survey of IORs - monthly or bi-monthly survey may be distributed to  
24           IORs in the HCAI database. The survey should include questions to solicit  
25           responses about availability, project types, and work locations.  
26           • Webpage for use by facilities to locate interested and available - this  
27           approach entails IORs seeking projects to register on an HCAI website that  
28           would be saved to a searchable database.  
29           • Combined webpage for both facilities and IORs - the databases described for  
30           facilities and IORs could both be made available on the same webpage to  
31           allow both IORs and facilities to actively participate in the search rather than  
32           having one party passively wait for a response.

33 Mr. Lyons concluded that there was a lack of reliable, organized, real-time resources for  
34 IORs to find projects, and that there was a strong interest in having reliable and  
35 effective tools for searching and proposing potential projects.

36 Mr. LaBrie stated that there were two recertifications with 185 recertified IORs.

1 Mr. LaBrie reported that 16 new Tips of the Day were issued and were posted to the  
2 HCAI website.

3 Mr. LaBrie gave a report on ISU update:

- 4 • eTIO - Consultant completed Proof of Concept and a draft demonstration to  
5 be provided.
- 6 • HBSB Seminar – Completed.
- 7 • Field Operation Manual was updated and published on August 15, 2023.
- 8 • Field Operation Manual - ISU Annual Update completed and published 08/15.
- 9 • CO Training - ISU monthly training meetings completed.
- 10 • Tips from the Experts Manual - in collaboration with BSU, ISU completed draft  
11 revisions to the Manual.
- 12 • IOR Enhanced Monitoring - various types of action were ongoing with some  
13 challenging IORs.
- 14 • ISU IOR Supplemental Monitoring - ISU initiated a new program to  
15 complement and augment Field Staff's regular IOR monitoring.
- 16 • Field Staff Safety Training - COMPLETED

17 Mr. Davis discussed the eTIO process.

18 Ms. Endres asked how many healthcare facilities were under OSHPD jurisdiction. Mr.  
19 Tokas answered that there were 1,200 SNFs and 412 hospitals.

20 Ms. Endres asked how many IORs were there for those facilities. Mr. Tokas answered  
21 that there were 360 active IORs.

22 Mr. Bliss asked if IORs were independent contractors. Mr. Lyons answered that there  
23 were no requirements for IOR to work full-time.

24 Mr. Bliss asked if there was a standardized pay for IORs. Mr. Davis answered that there  
25 was no standard grade pay for IORs, they negotiate.

26

## 27 **Information and Action item**

- 28 • None.

29

## 30 **16. Building Standards Unit (BSU) Update**

31 **Presenter:** Mia Marvelli, BSU Supervisor

### 32 **Discussion and input**

33 Ms. Marvelli talked about the National Codes and Standards:

- 1 • ASHRAE: SSPC 170, Ventilation of Health Care Facilities
- 2 • National Fire Protection Association: NFPA 70, National Electrical Code,
- 3 Health Facilities backup power and microgrids
- 4 • Federal Guidelines Institute:
  - 5 ▪ 2025 Hospital Committee.
  - 6 ▪ 2025 Outpatient Committee.
  - 7 ▪ Design and Construction of Hospitals, Imaging Class 1-3 and
  - 8 Treatment, Procedure.
- 9 • International Code Council.

10 Ms. Marvelli reported that the BSU codes are due to CBSC on February 1, 2024, and  
11 due to be reviewed on January 10, 2024, by the Codes and Process committee.

12 Ms. Marvelli talked about HCAI/ CDPH coordination:

- 13 • Title 22 Rewrite ongoing (assisting).
- 14 • AB 2511 SNF Reviews.
- 15 • Water Rationing Plans.
- 16 • Methods of Procedures Guidance.
- 17 • Processes for survey discovery of unauthorized projects.
- 18 • Functional Program Rewrite.
  - 19 ▪ CDPH Review Process - revised.
  - 20 ▪ Timeframes for approving Functional Programs and AMCs- ongoing.
- 21 • Dietary Functional Program/Guide – Live.
- 22 • COVID Reset coordination/Program Flex Reviews and other
- 23 emergency/disaster operations.

24

25 HCAI/California Administrative Code (CAC) coordination

- 26 • Clinic Advisory Committee
  - 27 ▪ Quarterly Meetings ongoing - looking at specific concerns of the clinic
  - 28 community.
  - 29 ▪ OSHPD 3 Clinic Webinars scheduled for May 16 and 18, 2024.
  - 30 ▪ Clinic standards as compared to outpatient services of a hospital being
  - 31 reviewed.
  - 32 ▪ AB 1612 coordination.

33

1 HCAI/AIA coordination.

- 2 • AIA Central Valley Chapter – monthly.
- 3 • AIA Pasadena Chapter.
- 4 • AIA Orange County Chapter.

5

6 Ms. Marvelli talked about upcoming OSHPD webinars and other presentations:

- 7 • Integrated Review (PIN 50) – TBD.
- 8 • Construction Project Responsibilities – TBD.
- 9 • Emergency Design Guide – March 2024.

10

### 11 **Information and Action item**

- 12 • None.

13

### 14 **17. Fire Prevention Unit (FPU) Update**

15 **Presenter:** Nanci Timmins, Chief Fire Life Safety Officer

### 16 **Discussion and input**

17 Ms. Timmins gave a report on the Fire Prevention Unit:

- 18 • Fire Life Safety - FAQ updated 29 pages.
- 19 • Standard preapproved Details - Updates.
- 20 • Reminder list – updated 69 pages.
- 21 • Mid cycle code changes.

22 Ms. Timmins stated that FPU conducted training for these groups:

- 23 • CDPH
- 24 • IOR
- 25 • Kaiser IOR
- 26 • 2 HR monthly FLS refresher
- 27 • Architect, Mechanical, Electrical

28 Ms. Timmins gave an update of the PINs and CANs:

- 29 • PIN 14 Fire watch procedures and fire watch personnel qualifications.
- 30 • PIN 67 rescinded and FAQ created-firestopping special inspectors.
- 31 • CAN 2-703.3.

1 **Information and Action item**

- 2 • None.

3

4 **18. Structural Services Section Update**

5 **Presenter:** Roy Lobo, Principal Structural Engineer

6 **Discussion and input**

7 Mr. Lobo talked about the Seismic compliance documents/applications required to be  
8 submitted to HCAI/OSHPD by January 1, 2024:

- 9 • NPC 3 compliance construction final document.
- 10 • NPC 4D Evaluation report including Operational Plan.
- 11 • NPC 4 Evaluation report - if GAC building NPC target is not NPC 4D.
- 12 • NPC 5 Evaluation report including 72hr fuel evaluation and Water Rationing  
13 Plan.
- 14 • Letter of Intent stating GAC services in the building will be removed by  
15 1/1/2030.
- 16 • Licensed GAC Services Reporting Application - All buildings under HCAI  
17 jurisdiction.
- 18 • Signage Application.

19

20 Mr. Lobo reported the number of buildings in each structural performance category: 42  
21 SPC 1, 662 SPC 2, 375 SPC 3, and 795 SPC 4.

22 Mr. Lobo mentioned that while deadlines had the primary characteristic of all extension  
23 programs adopted from SB 1953 onward, AB 2190 included enforcement mechanisms  
24 seldom available to HCAI.

25 Mr. Lobo gave an update to the seismic compliance and safety website:

- 26 • Added a public webpage for AB 1882 Hospital Seismic Safety Act.
- 27 • Accessed by scanning the QR Code on signage posted in hospitals.
- 28 • Interactive Tableau dashboard to explain the Structural Integrity and  
29 Equipment and Systems gauges.
- 30 • Descriptions of Structural (SPC) and Non-Structural (NPC) Performance  
31 Categories, how they affect hospital performance during an earthquake, and  
32 applicable 2030 seismic safety standards.
- 33 • Designed for hospital administrators and design professionals.

- 1 • Provided detailed information about AB 1882 Hospital Signage
- 2 • Highlighted: Learn about signage requirements and deadlines, which
- 3 buildings require signs, and instructions for posting signs.
- 4 • Step-by-Step eServices Portal User Guide for applying for HCAI approval of
- 5 Hospital Signage locations.
- 6 • Frequently Asked Questions (FAQ).

7

8 Mr. Lobo stated the 2024 webinar topics:

- 9 • Webinar covering SPC 2 to SPC 4D upgrade.
- 10 • NPC Projects.
- 11 • AB1882 Refresher.

12

13 Mr. Lobo gave the Structural Support Unit update:

- 14 • OSHPD preapproved programs.
- 15 • Structural/nonstructural California amendments.
- 16 • Geotechnical reviews.
- 17 • Seismic instrumentation.
- 18 • Structural training and support to the regions.
- 19 • Review of alternate methods of compliance.
- 20 • Management of contract out plan reviews.
- 21 • Other Activities.

22 Mr. Lobo said that PIN 62 was updated on the HCAI website to address requirements  
23 for the 2022 CBC.

24 Mr. Lobo reported that the seismic instrumentation program had 16 projects: 3  
25 completed, 9 underway, 4 upcoming.

26

### 27 **Information and Action item**

- 28 • None.

29

### 30 **19. Comments from the public/committee members on issues not on this agenda**

31 **Presenter:** Louise Belair, Board Chair

32

1 **Discussion and input**

2 Ms. Belair thanked everyone for their input and participation.

3

4 **Information and Action item**

- 5 • None.

6

7 **20. Adjournment**

8 Ms. Belair adjourned the meeting on December 8, 2023, at approximately 2:51 p.m.

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# Ad hoc Board Procedures Committee

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Draft Meeting Report/Minutes

December 5, 2023



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



**HOSPITAL BUILDING SAFETY BOARD  
Ad hoc Board Procedures Committee**

**Tuesday, December 5, 2023  
10:00 a.m. – 12:00 p.m.**

**Teleconference Meeting Access:  
HBSB Teams BP Committee  
Access Code: 846-098-932**

**Committee Members Present**

Michael Foulkes, Chair  
Scott Jackson, Vice chair  
Louise Belair

**HCAI Staff Present**

Richard Tannahill  
Arash Altoontash  
Joe LaBrie  
Carl Scheuerman  
John Gray

**HBSB Staff Present**

Veronica Yuke, Acting Executive Director  
Evet Torres

1 **1. Welcome and Introductions**

2 Michael Foulkes, Chair, called the meeting to order on December 5, 2023, at 10:11  
3 a.m., and HBSB Acting Executive Director, Veronica Yuke called roll.

4

5 **2. Roll Call and Meeting Advisories/Expectations**

6 Three members of the Committee present constitute a quorum. There being three  
7 present at the time of roll, a quorum was established.

8

9 Ms. Yuke read the meeting rules and procedures.

10

1 **3. Review of Board Policies and Procedures**

2 **Presenter:** Michael Foulkes, Committee Chair

3 **Discussion and Input**

4 Mr. Foulkes stated that the goal of the meeting was to discuss how to handle the vice  
5 chair vacancy since Mr. Jackson was retiring.

6 Mr. Foulkes noted that the HBSB Policies and Procedures addressed the elevation of  
7 the vice chair in the absence of the chair but lacked provisions for the absence or  
8 retirement of the vice chair.

9 Mr. Foulkes proposed that if the vice chair position became vacant during a two-year  
10 term, the chair should recommend a replacement candidate to the board to ensure  
11 approval and potentially prevent appointing someone lacking experience or value to the  
12 existing chair.

13 Mr. LaBrie suggested implementing a minimum tenure requirement for nominated  
14 committee candidates.

15 Mr. Foulkes added paragraph D, under section VI, to state that should the vice chair  
16 become unable to serve out the full term, the chair shall nominate a board member at  
17 the next scheduled Full Board meeting.

18 Mr. LaBrie asked whether the added paragraph D would affect the eligibility limits for  
19 serving in the vice chair role in the future. Mr. Foulkes answered that the vice chair term  
20 would not count towards the limits outlined in section VI. A.1.a.

21

22 **MOTION: [Belair/Jackson]**

23 The committee unanimously voted to approve the addition of item D in section VI  
24 related to the replacement of the Vice Chair when not able to serve out the full term.

25 **Informational and Action item**

- 26 • None

27

28 **4. Discussion of future items for the Committee to consider**

29 **Presenter:** Michael Foulkes, Committee Chair

30 **Discussion and Input**

- 31 • None.

32

33 **Informational and Action item**

- 34 • None

1 **5. Comments from the public/committee members on issues not on this agenda**

2 **Presenter:** Michael Foulkes, Committee Chair

3

4 **Discussion and input**

5 Mr. Foulkes mentioned that there were no upcoming scheduled meetings, but the  
6 committee would convene as necessary.

7

8 **Informational and Action item**

- 9 • None.

10

11 **6. Adjournment**

12 Mr. Foulkes adjourned the meeting on December 5, 2023, at approximately 10:58 a.m.

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# Codes and Processes Committee

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Draft Meeting Report/Minutes

January 10, 2024  
February 21, 2024

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



**HOSPITAL BUILDING SAFETY BOARD  
Codes and Processes Committee**

**Wednesday, January 10, 2024  
10:00 a.m. – 4:00 p.m.**

**Teleconference Meeting Access:  
Access Code: 644-869-593**

**Committee Members Present**

Michael O'Connor, Committee Chair  
Teresa Endres, Vice-Chair  
Louise Belair  
Gary Dunger  
John Griffiths  
Scott Mackey  
Jim Malley

**Consulting Members Present**

Kelly Martinez  
Belinda Young

**HCAI Staff Present**

Chris Tokas, OSHPD Deputy Director  
Richard Tannahill  
Larry Enright  
Mike Hooper  
Mia Marvelli  
Diana Navarro  
Jamie Schnick  
Nanci Timmins  
John Gray

**HBSB Staff Present**

Veronica Yuke, Acting Executive Director  
Marcus Palmer  
Evet Torres

- 1 **1. Call to Order and Welcome**
- 2 Michael O'Connor, Committee Chair, called the meeting to order on January 10, 2024,
- 3 at 10:00 a.m., and HBSB Acting Executive Director, Veronica Yuke called roll.

1 **2. Roll Call and Meeting Advisories/Expectations**

2 Seven members of the Committee present constitute a quorum. There being nine  
3 present at the time of roll, a quorum was established.

4  
5 Ms. Yuke read the meeting rules and procedures.  
6

7 **3. Proposed amendments to the 2025 California Mechanical Code (CMC), Part 4,**  
8 **Title 24**

9 **Presenter:** Mia Marvelli and Larry Enright, HCAI  
10

11 **Discussion and Input**

12 Ms. Marvelli recapped that the electrical, mechanical, and plumbing code cycles were  
13 due to the Building Standard Commission (BSC) on February 1, 2024.

14 Mr. Enright talked about the California Mechanical Code, Part 4 Initial Express Terms  
15 (IET) presentation for the 2024 Triennial Code Cycle:

- 16 • Chapter 2 – Definitions.
  - 17 ▪ 210.0 – H – Health Facilities – changed “Health” to “Hospital” in (OSHPD)  
18 Office of Statewide Hospital Planning and Development.
- 19 • Section 318 – Scope.
  - 20 ▪ 318.1 Applicability – struck out existing language - adoption tables for  
21 applications for specific sections.
- 22 • Section 321.0 – Essential Power.
  - 23 ▪ 321.3 - Introduction of a new cooling equipment requirement to be the  
24 minimum standard for operating rooms or other spaces categorized as  
25 category 1, as identified through facility risk assessments.
  - 26 ▪ 321.6 All control components, control systems, and fire and smoke dampers  
27 necessary for the normal operation of equipment required to have essential  
28 electrical power.
- 29 • Section 322 – Sensitive Areas – temperature and humidity requirements.
  - 30 ▪ Additional sections and tables that do have humidity requirements and class  
31 1,2,3 imaging added into the California Building Code (CBC).
- 32 • Section 401.0 General - editorial changes to reference the actual OSHPD  
33 amendments.
- 34 • Section 402.0 – Ventilation Air.
  - 35 ▪ 402.1 – removal of OSHPD in the amendment in the model code sentence.

- 1 • Section 402.1.2 – Ventilation in Health Care Facilities – model code calls out
- 2 ASHRAE 170 and does not have any healthcare requirements.
- 3 • Section 406.0 – Evaporative Cooling – striking out food preparation areas.
- 4 • 407.0 – Ventilation System Details.
- 5     ▪ 407.1 - long paragraph requirements relocated to a new section in
- 6     accordance with section 407.7.
- 7 • 407.2.2 – Exhaust Outlets - code changes for Class 4 type hazardous exhaust.
- 8 • 407.3 – Air Balance – clarify that air balance tolerance values shall not result in
- 9 noncompliance of the minimum required pressurization.
- 10 • 407.4 – Air Circulation.
- 11     ▪ 407.4.1.1 (formerly 420.0) Air Distribution Devices [OSHPD 1, 2, 3, 4, 5]. All
- 12     air distribution devices and supply air outlets shall meet the requirements of
- 13     ASHRAE 170-2013, Section 6.7.2 and Table 6.7.26-2.
- 14     ▪ 407.4.1.2(formerly 407.4.1.6) Supply outlets and return and exhaust air inlets
- 15     shall be located to prevent short-circuiting.
- 16     ▪ 407.4.1.1 - reworded and relocated to 407.4.1.5 and 407.4.1.6.
- 17     ▪ 407.4.1.4 Air supplied to procedure rooms and class 2 imaging shall be
- 18     delivered over the patient table.
- 19     ▪ 407.4.1.5 and 407.4.1.6 - separated into two, one dealing with operating
- 20     rooms and the other one dealing with morgues.
- 21     ▪ Renumbering of 407.4.1 to 407.4.2, 407.4.1.4 to 407.4, 407.4.1.5 to 407.4.4
- 22     and 407.4.1.6 relocated to 407.4.1.1.
- 23     ▪ 407.4.1.7407.4.5 Recirculating Room Units – ASHRAE 170 added a
- 24     recirculate room column.
- 25 • 407.5 Variable Air Volume.
- 26     ▪ 407.5.1.3 – additional language that talks about maintaining space
- 27     pressurization.
- 28     ▪ 407.5.1.4 – additional language for sensitive rooms or areas shall be provided
- 29     with an automatic modulating damper on the supply and on the return or
- 30     exhaust air for each space.
- 31     ▪ 407.5.1.5 NR spaces per Table 4A shall utilize a modulating damper in the
- 32     return air for each zone or zones with similar conditions.
- 33 • 407.6 – Economizers.
- 34     ▪ 407.6.1 – editorial changes to add title header.
- 35 • 407.7 – Unoccupied Turndown.

- 1           ▪ 407.7.1 - Unoccupied turndown column of Table 4-A, the number of air  
2           changes shall be permitted to be reduced.
- 3       • 407.8 – Building Pressurization - 170 national standard requirement for  
4       exfiltration.
- 5       • 408.0 – Filters.
- 6           ▪ 408.1.7 HEPA filtration, where required by Table 4-B, shall be provided at the  
7           terminal device outlet.
- 8           ▪ 408.3 Filters for Skilled Nursing Facilities, Intermediate.
- 9           ▪ 408.3.2 and 408.3.3 stricken out.
- 10          ▪ 408.4 Filters for Outpatient Facilities – removal of 408.4.2 noncentral  
11          recirculating units.
- 12          ▪ Addition of Section 408.5 Filters for Recirculating Room Units and 408.5.1  
13          Filters for Recirculating Room Units to comply with Section 407.4.5.
- 14       • 409.0 – Ducts – removing 409.3 since it is duplicated language, which was  
15       covered in Chapter 6.
- 16       • 414.0 – Airborne Infection Isolation – National Standard Code increased exhaust  
17       discharge from fans to 10 above the roof and discharge vertically upward.
- 18       • 417.0 Testing and Balancing Airborne Infection Isolation Rooms and Protective  
19       Environment Rooms – added one sentence at the end to discuss air balance  
20       testing to include a pressure test at all doors serving the isolation and anterooms.
- 21       • 420.0 – Air Distribution Devices - relocated to 407.4.1.1.
- 22       • Table 4A – removed the minimum filter efficiency column and provided the FGI  
23       language.
- 24       • Table 4B – modified to work with the high-efficiency particulate air (HEPA)  
25       requirement.
- 26       • Table 4C skilled nursing facilities and intermediate care – added banners for  
27       hospitals, outpatient, correctional treatment facilities, or Skilled Nursing Facilities.
- 28       • 603.4 – Flexible Air Ducts.
- 29           ▪ 603.4.1.1 – struck out 1R and added a sentence that dealt with fire and  
30           smoke dampers.
- 31       • 605.0 –Insulation of Ducts.
- 32           ▪ 605.2 – removed 1R, surgical clinics, added class 3 imaging and hybrid  
33           operating rooms.
- 34           ▪ 605.3 – removed 1R, and the language was revised to match HEPA  
35           requirements in Table 4B.
- 36       • Table 1104.1 – occupancy group 2.1 removed from the Part 2 building code.

1 Mr. Griffiths asked whether the need for spaces, as mentioned in the facility's safety risk  
2 assessment, pertained to new or pre-existing facilities. Mr. Tokas clarified that the risk  
3 assessment plan was a mandatory requirement that varied depending on the services  
4 provided by the facility. Mr. Tannahill mentioned that the risk assessment was part of  
5 the functional program to be provided by the owner, and optional requirements would  
6 be identified from there.

7 Ms. Belair asked if the facility safety risk assessment was similar to the Emergency  
8 Operation Plan or different from the one referenced in NPC-5 compliance. Mr. Tokas  
9 answered that it was different from the one referenced in NPC-5 compliance.

10 Ms. Belair inquired if all operating room support spaces were required to have cooling  
11 systems or if there were exceptions. Mr. Tannahill answered that the cooling systems  
12 were only required for the operating room itself.

13 Mr. Mackey mentioned that the Education and Outreach Committee had plans to do a  
14 webinar in 2024 on the operation plans, how they were done, and what the plans would  
15 involve.

16 Mr. Griffiths asked what the process was for considering natural ventilation through the  
17 windows as supplemental to the required mechanical ventilation. Mr. Tannahill  
18 answered that the wording just stated that it used natural ventilation in addition to what  
19 was already there.

20 Ms. Belair asked whether a modulating damper was necessary for constant volume  
21 exhaust systems. Mr. Enright answered that it was only applicable to variables on the  
22 exhaust systems.

23 Ms. Young asked whether clarification was needed on the outside air requirements for  
24 the fire control room. Mr. Enright answered that there was no such clarifying language  
25 for the matter, but that he would work collaboratively with Ms. Timmins to address the  
26 issue.

27 Mr. Malley suggested revising the language in 407.4.5.1 to apply to areas not listed in  
28 Table 4A that are not directly connected to patient care areas.

29 Mr. Griffiths requested clarification or simplification of the steps required to complete the  
30 code from its current stage. Ms. Marvelli said another meeting of the Code and Process  
31 Committee would take place in February to discuss changes in Part 1 and Part 2 and  
32 introduce mechanical adjustments for clarification. She stated that the proposed code  
33 changes would be submitted to the California Building Standards Commission (CBSC)  
34 by February 1, 2024, after the committee votes. The Code Advisory Committee then  
35 reviews the changes in a meeting scheduled for late March.

36 Mr. Malley asked if the February 1<sup>st</sup> submission to CBSC would consist of what was  
37 presented, and include the understanding of the discussions and the intent behind the  
38 proposed changes. Mr. Enright confirmed that that would be the intent.

1 **MOTION: [Belair/Mackey]**

2 The committee unanimously voted to approve the proposed amendment to the 2025  
3 California Mechanical Code Part 4, title 24.

4  
5 **Informational and Action item**

- 6 • None  
7

8 **4. Proposed amendments to the 2025 California Plumbing Code (CPC), Part 5,**  
9 **Title 24**

10 **Presenter:** Larry Enright, HCAI  
11

12 **Discussion and Input**

13 Mr. Enright discussed the changes to the California Plumbing Code, Part 5 Initial  
14 Express Terms submitted to the CBSC:

- 15 • Chapter 2 – Definitions.
- 16     ▪ 210.0 H - handwashing fixture added the “the flow rate for handwashing  
17 fixtures shall not be less than 1.0 gallons per minute” in Item C, and added  
18 tolerance on the 180° return in Item D.
- 19     ▪ 221.0 – scrub sink addition definition that does not involve contact with the  
20 upper extremities and the scrub sinks would have option for temperature  
21 control.
- 22 • 310.0 Prohibited Fittings and Practices – model code added sections leading to  
23 redoing section numbers for OSHPD amendments to follow the model code.
- 24 • 319.0 Medical Gas and Vacuum Systems – struck out not permitted for OSHPD  
25 1, 2, 3, 4 & 5 banner.
- 26 • 422.0 Minimum Number of Required Fixtures.
- 27     ▪ 422.3.1 – Exception 2 added - For public waiting areas with an occupant load  
28 of 10 or less, one toilet facility, designed for use by no more than one person  
29 at a time, shall be permitted for use by both sexes.
- 30 • 604.0 Materials – the word Health changed to Hospital in the OSHPD definition,  
31 and the addition of potable water to note the potable water applications.
- 32 • 609.10 Disinfection of Potable Water System – addition of item 5 stating that  
33 Disinfection shall be completed no more than three weeks before whole or partial  
34 beneficial occupancy.
- 35 • Table 613.1 – 1R struck out, language change in Item 1 for water temperature to  
36 be 180 degrees Fahrenheit unless a chemical disinfection would be provided,  
37 and Item 3 added to coordinate with health authority.

- 1 • 613.0 Domestic Hot-Water.
  - 2 ▪ 613.2 added language stating that storage water heaters and hot-water
  - 3 storage tanks shall be maintained at 140°F or above.
  - 4 ▪ 613.6 added sentence stating that Hot water recirculation piping shall return
  - 5 the recirculation loop back through the hot water source.
  - 6 ▪ Added section 613.9 Hot water distribution shall include test ports and valved
  - 7 openings for flushing of portions of the system in accordance with the facility's
  - 8 water management program.
- 9 • 614.0 Dialysis Water-Distribution Systems.
  - 10 ▪ 614.1 –the Association for American Association of Medical Instrumentations
  - 11 (AAIM) standard referenced RD 62 revisions to 23500-2
  - 12 ▪ 614.7 - incorporated 23500-2 and 23500-3.
- 13 • 616.0 Emergency Water Supply.
  - 14 ▪ Editorial changes from 615.4 to 616.0 and 615.4.1 to 616.1.
  - 15 ▪ Added 616.2 Storage tanks connections and circulation shall be designed to
  - 16 limit water stagnation and temperature stratification.

17

18 Ms. Belair asked if sensor-operated fixtures were the only recommended option in  
19 221.0, or if knee or foot-operated fixtures were permitted. Mr. Enright answered that  
20 footnote 33 stated that if the action did not involve contact with the upper extremities or  
21 the use of arms, all those methods were deemed acceptable.

22 Mr. Mackey suggested that if the statement was that the fixture was sensor-operated, it  
23 should not exclude the use of other methods such as feet and knees. He added that if  
24 the intent was to allow feet and knees, it should be explicitly stated to avoid a strict  
25 limitation to sensor operation.

26 Mr. Tannahill clarified that the existing language regarding sensor-operated fixtures  
27 specified their capability but did not mandate their exclusive use, indicating that other  
28 methods could also be employed.

29 Ms. Martinez asked for clarification on the term occupancy, questioning whether it  
30 referred to a certificate of occupancy indicating substantial compliance or the actual  
31 utilization of the space. Mr. Enright answered that the language regarding partial  
32 beneficial occupancy aligned with the national standard.

33

34 **MOTION: [Belair/Mackey]**

35 The committee unanimously voted to approve the proposed amendment to the 2025  
36 California Plumbing Code Part 5, Title 24 as discussed and presented.

1 **Informational and Action item**

- 2 • None

3

4 **5. Comments from the public/committee members on issues not on this agenda**

5 **Presenter:** Michael O'Connor, Committee Chair

6 Future Codes and Processes Committee meetings:

- 7 • February 21, 2024.
- 8 • May 8, 2024.
- 9 • September 11, 2024.

10

11 **Discussion and input**

12 Mr. O'Connor expressed gratitude to committee members for their participation and  
13 thanked HCAI staff for their preparation ahead of the session.

14

15 **6. Adjournment**

16 Mr. O'Connor adjourned the meeting on January 10, 2024, at approximately 12:24 p.m.



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Sacramento, CA 95833  
hcai.ca.gov



**HOSPITAL BUILDING SAFETY BOARD  
Codes and Processes Committees**

**Wednesday, February 21, 2024  
10:00 a.m. – 4:00 p.m.**

**Teleconference Meeting Access:  
HBSB Teams CAP Committee  
Access Code: 931-755-010**

**Committee Members Present**

Michael O'Connor, Committee Chair  
Teresa Endres, Vice-Chair  
Cody Bartley  
Louise Belair  
Michael Davis  
Gary Dunger

**HCAI Staff Present**

Richard Tannahill  
Brett Beekman  
Larry Enright  
Roy Lobo  
Mia Marvelli  
Diana Navarro  
Nanci Timmins  
John Gray

**Consulting Members Present**

Mark Hershberg  
Belinda Young

**HBSB Staff Present**

Veronica Yuke, Acting Executive Director  
Marcus Palmer  
Evet Torres

- 1 **1. Call to Order and Welcome**
- 2 Michael O'Connor, Committee Chair, called the meeting to order on February 21, 2024,
- 3 at 10:00 a.m., and HBSB Acting Executive Director, Veronica Yuke called roll.
- 4

1 **2. Roll Call and Meeting Advisories/Expectations**

2 Seven members of the Committee present constitute a quorum. There being eight  
3 present at the time of roll, a quorum was established.

4

5 Ms. Yuke read the meeting rules and procedures.

6

7 **3. Review and approve the draft January 10, 2024, meeting report/minutes**

8 **Presenter:** Michael O'Connor, Committee

9 **Discussion and Input**

10 Mr. O'Connor noted a correction on page 5 of 8 line 5, where the word functioning was  
11 used instead of functional.

12

13 **MOTION: [O'Connor/Bartley]**

14 The committee unanimously voted to approve the draft January 10th, 2024, meeting  
15 report with correction.

16

17 **Informational and Action item**

- 18 • None

19

20 **4. Proposed amendments to the 2025 California Administrative Code, Part 1, Title**  
21 **24**

22 **Presenter:** Mia Marvelli and Clara Wu, HCAI

23 **Discussion and Input**

24 Ms. Marvelli stated that the electrical, mechanical, and plumbing code cycles were  
25 submitted to the Building Standard Commission (BSC) on February 1, 2024.

26 Ms. Marvelli talked about the proposed amendments to the 2025 California  
27 Administrative Code, Part 1, Title 24:

- 28 • Chapter 7 Safety Standards for Health Facilities
- 29 ▪ 7-152 – OSHPD proposed to replace individuals with firms and include IOR  
30 and contractors.
  - 31 ▪ 7-153. Changes to the approved work.
    - 32 ▪ (b) Changes that do not materially alter the work – removed item 1 and  
33 2, then renumbered item 3 to 1.
  - 34 ▪ 7-155. Final approval of the work – clarified that the items required were the  
35 final verification of compliance reports and the final test reports.

1 **MOTION: [Bartley/Endres]**

2 The committee unanimously voted to approve the proposed amendment to the 2025  
3 California Administrative Code, Part 1, Title 24.

4

5 **Informational and Action item**

- 6 • None

7

8 **5. Proposed amendments to the 2025 California Building Code, Part 2, Volume 1,**  
9 **Title 24**

10 **Presenter:** Mia Marvelli and Clara Wu, HCAI

11 **Discussion and Input**

12 Ms. Marvelli stated that the proposed amendments to the 2025 California Building  
13 Code, Part 2, Volume 1, Title 24 were:

- 14 • Preface information and non-regulatory changes - Updating the code to  
15 accurately reflect the name Office of Statewide Hospital Planning and  
16 Development (OSHPD).
- 17 • Chapter 1, Division I, scope and administration – replacing the word health with  
18 hospital in the name OSHPD.
- 19 ▪ 1.10.6 OSHPD 6 – Clarified that applications for Part 6 were for chemical  
20 dependency recovery hospitals that were not within an acute care hospital or  
21 an acute care site facility and were enforced by the local building department.
- 22 • Chapter 1, Division II - scope and administration Section 108 – amendment  
23 added stating that OSHPD would grant only one extension to temporary  
24 structures, equipment, or systems.
- 25 • Chapter 10 Means of egress - renumbered cleanup items.
- 26 • Chapter 12 Interior environment.
- 27 ▪ Section 1224 (OSHPD 1) hospitals - cleanup to reference the correct section  
28 309A to 312A.
- 29 ▪ 1224.3 Definitions - definition and Table 1224.4.11a introduced in the 2022  
30 edition of T-24 to determine the classification of the imaging room or  
31 procedure room required.
- 32 ▪ Section 1224.4 General construction – updated the correct name of the  
33 ASTM reference standard.
- 34 ▪ Table 1224.4.6.5 - Added and in emergency exam, treatment, and triage  
35 rooms to clarify that they were three separate rooms.

- 1       ▪ Section 1224.14.1.8 Patient storage – added language to state that each  
2       patient room shall provide a separate wardrobe, locker, or closet for storing  
3       clothing and personal effects for each patient.
- 4       ▪ Section 1228 OSHPD 5 Acute psychiatric hospitals, Patient storage –  
5       language change to state that each patient room shall provide a separate  
6       wardrobe, locker, or closet for storing clothing and personal effects for each  
7       patient.
- 8       ▪ Section 1229 OSHPD 6 Chemical Dependency Recovery Hospitals, Patient  
9       storage – language change to state that each patient room shall provide a  
10      separate wardrobe, locker, or closet for storing clothing and personal effects.
- 11     ▪ Section 1224.16.2.1 Space requirements – added language that required six  
12     feet outside of the curtain area.
- 13     ▪ Section 1224.19 Pharmaceutical Service Space – revised language to  
14     address allowance for hazardous drug storage room.
- 15     ▪ Section 1224.19.3.2.3.3 Handwashing station – added language to state that  
16     the handwashing station could be in or adjacent to the anteroom.
- 17     ▪ Section 1224.19.3.2.4 Segregated Compounding Area (SCA), Handwashing  
18     station – language amended for consistency with USP 797 Pharmaceutical  
19     compounding sterile preparations.
- 20     ▪ Section 1224.19 Pharmaceutical service space, Pass-throughs – cleanup  
21     changes by adding the words HD and hazardous as part of the hazardous  
22     preparation areas.
- 23     ▪ Section 1224.20 Dietetic service space - amended to clarify that three-  
24     compartment sinks were required in pot washing facilities.
- 25     ▪ Section 1224.29.1.15 Support - changed adjacent to accessible to be  
26     consistent with Chapter 12 for definition of locations.
- 27     ▪ Section 1224.30 Pediatric and Adolescent Unit – amended language to clarify  
28     that the pediatric and adolescent areas were separate from the adult unit.
- 29     ▪ Section 1228.30 Pediatric and Adolescent Psychiatric Service Space –  
30     clarified that pediatric and adolescent mental health service areas were  
31     separate from adult mental health service areas.
- 32     ▪ Section 1224.31.1 Psychiatric unit space – language change to clarify that  
33     psychiatric nursing unit in the general acute care hospital (OSHPD 1) was not  
34     a distinct part of the hospital.
- 35     ▪ Section 1224.31.1.9 Activity spaces – added specificity for activity spaces  
36     provided in a psychiatric nursing unit.
- 37     ▪ Section 1228.2 OSHPD 5 Acute Psychiatric Hospitals, Applications –  
38     separated the application section about psychiatric nursing units in a medical

- 1 facility (OSHDP 1) versus the non-medical psychiatric hospital or units  
2 (OSHDP 5).
- 3 ▪ Section 1224.33.2.7.1 Behavioral health observation area - clarified the  
4 furniture options for the behavioral health observation area.
  - 5 ▪ Section 1224.33.4.2 Fast-track area – added fast-track area requirements in  
6 the emergency department to be consistent with the triage area requirements.
  - 7 ▪ Section 1224.35.1 Rehabilitation center space – revised language to show  
8 that physical therapy service, occupational service, and speech pathology  
9 service were required services for a rehabilitation center.
  - 10 ▪ Section 1225.6.6 Special Treatment Program Service – added language to  
11 state that skilled nursing facilities shall have a minimum of 30 patients.
  - 12 ▪ Section 1226 Clinics – changed the word medicine to medication.
  - 13 ▪ 1226.8 Surgical Clinics - added subsection to provide a pointer to the  
14 procedure room requirements.
  - 15 ▪ Section 1226.4.14.2 Specimen and/or blood collection facilities – renumbered  
16 the cleanups.
  - 17 ▪ 1224.3 Definitions, Chemical Dependency Recovery Hospital – renumbered  
18 1224.41 to 1224.42.
  - 19 ▪ Section 1229.31 Other chemical dependency service space – amended  
20 language to reference the sections that may be used for other services in a  
21 chemical dependency hospital.
  - 22 ▪ Table 1224.4.6.1 – added column for instrument air.

23 Ms. Endres asked whether the definition for pediatrics versus adolescents was Title 22  
24 or Title 24. Ms. Wu answered Title 22, 70537 talked about pediatric and adolescent age,  
25 and how they could be separated.

26 Ms. Belair proposed rewording of section 1224.19.2.3.7 Hazardous drug (HD) storage.

27 Ms. Belair pointed out that section 1224.31.1.1 Psychiatric unit was not clear. Ms.  
28 Marvelli acknowledged the error and added that the second sentence should start with a  
29 capital letter and the words non-medical psychiatric nursing unit.

30

31 **MOTION: [Bartley/Endres]**

32 The committee unanimously voted to approve the proposed amendment to the 2025  
33 California Building Code Part 2, Volume 1, Title 24, as presented with minor  
34 adjustments made on invasive procedures.

35

36

1 **Informational and Action item**

- 2 • None
- 3

4 **6. Proposed amendments to the 2025 California Mechanical Code, Part 4, and**  
5 **California Plumbing Code, Part 5, Title 24**

6 **Presenter:** Larry Enright, HCAI

7 **Discussion and input**

8 Mr. Enright discussed the proposed amendments to the 2025 California Mechanical  
9 Code, Part 4:

- 10 • Section 321.0 Essential Power – added language for section 321.3 for the  
11 cooling for central power.
- 12 • Section 322.0 Sensitive Areas or Rooms – language change and renumbering.
- 13 • Section 407.3 Air balance – added new revised language.
- 14 • Section 407.4 Air Circulation – language change for recommended air filter flow.
- 15 • Section 407.5 Variable Air Volume – language revision for maintaining constant  
16 airflow.
- 17 • 407.5 Variable Air Volume – revised the last sentence to remove protective  
18 environment room.
- 19 • Table 4-A – removed FGI since it was noted in the table on ASHRAE and added  
20 a new column for unoccupied turndown.
- 21 • Table 4-B – added Air terminal device (A.T.D.) serving the room or space.
- 22

23 Amendments for the California Plumbing Code, Part 5, Title 24:

- 24 • Chapter 2 Definitions – added language to the scrub sink.
- 25 • Section 604.0 Materials – removed language on use of CPVC.
- 26

27 **MOTION: [Bartley/Endres]**

28 The committee unanimously voted to approve the proposed amendments to the 2025  
29 California Mechanical Code Part 4 and California Plumbing Code Part 5, Title 24.

30 **Informational and Action item**

- 31 • None
- 32

33 **7. Update on Electronic Test, Inspection, and Observation (eTIO) Development**

34 **Presenter:** Larry Enright, HCAI

1 **Discussion and input**

2 Mr. O'Connor stated that there would not be an update on the eTIO form and  
3 development, but the topic would be kept on the agenda for subsequent meetings.

4

5 **Informational and Action item**

- 6 • None

7

8 **8. Standard Details Update**

9 **Presenter:** Gary Dunger, Committee Member

10 **Discussion and input**

11 Mr. Dunger mentioned coordinating code change proposals with Ms. Timmins regarding  
12 type 5 construction methods, which involved fire barriers and incidental use areas.

13 Mr. Dunger expressed his commitment to providing a more detailed presentation for  
14 review and discussion at the next committee meeting.

15

16 **Informational and Action item**

- 17 • None

18

19 **9. Comments from the public/committee members on issues not on this agenda**

20 **Presenter:** Michael O'Connor, Committee Chair

21 Future Codes and Processes Committee meetings:

- 22 • May 8, 2024.  
23 • September 11, 2024.

24 **Discussion and input**

- 25 • None.

26

27 **Informational and Action item**

- 28 • None.

29 **10. Adjournment**

30 Mr. O'Connor adjourned the meeting on February 21, 2024, at approximately 12:04 p.m.

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# Instrumentation Committee

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Draft Meeting Report/Minutes

January 25, 2024

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



**HOSPITAL BUILDING SAFETY BOARD  
Instrumentation Committee**

**Thursday, January 25, 2024  
10:00 a.m. – 4:00 p.m.**

**Teleconference Meeting Access:  
HBSB Teams Instrumentation Committee  
Access Code: 867-382-721**

**Committee Members Present**

Farzad Naeim, Committee Chair  
Jim Malley, Vice Chair  
Martin Hudson  
Jennifer Thornburg

**HCAI Staff Present**

Arash Altoontash  
Hussain Bhatia  
Erol Kalkan  
Roy Lobo  
Ali Sumer  
John Grey

**Consulting Members Present**

Hamid Haddadi  
Tony Shakal

**HBSB Staff Present**

Veronica Yuke, Acting Executive Director  
Marcus Palmer  
Evet Torres

1 **1. Welcome and introductions**

2 Farzad Naeim, Committee Chair, called the meeting to order on January 25, 2024, at  
3 10:00 a.m., and HBSB Acting Executive Director, Veronica Yuke called roll.

4

1 **2. Roll Call and Meeting Advisories/Expectations**

2 Four members of the Committee present constitute a quorum. There being six present  
3 at the time of roll, a quorum was established.

4

5 Ms. Yuke read the meeting rules and procedures.

6

7 **3. Discussion on issues related to the Instrumentation of wood-framed hospital**  
8 **buildings**

9 **Presenter:** Farzad Naeim, Committee Chair

10 **Discussion and Input**

11 Mr. Naeim stated that there was a need for increased instrumentation in flexible  
12 diaphragm buildings, particularly wood-frame hospitals, compared to ordinary concrete  
13 or steel buildings.

14 Mr. Sumer stated that the motivation for considering wooden buildings was the planned  
15 retrofits for small and rural hospitals.

16 Mr. Hudson asked if there were differences in mounting instruments between wood-  
17 frame, steel, and concrete structures. Mr. Kalkan answered that it was easier to install  
18 instruments on wood frame buildings compared to steel or concrete structures.

19

20 **Informational and Action item**

- 21 • None

22

23 **4. Selection of candidate wood-framed hospital buildings for HCAI**  
24 **Instrumentation**

25 **Presenter:** Ali Sumer and Erol Kalkan, HCAI

26 **Discussion and Input**

27 Mr. Kalkan stated that wood-frame hospital buildings were predominantly single-story  
28 facilities with the built eras ranging from 1902 to 2023.

29 Mr. Kalkan stated that there were only two instrumented wood-frame hospital buildings:

- 30 • John F. Kennedy Memorial Hospital, Indio.  
31 • Tenet Health Central Coast Twin Cities Community Hospital, Templeton.

32 Mr. Kalkan mentioned that in total, there were 307 wood-frame hospital buildings in  
33 California.

1 Mr. Kalkan discussed the criteria for selection of wood-framed hospital buildings for  
2 HCAI Instrumentation were:

- 3 • Plan irregularities, hence they have many wings.
- 4 • Flexible diaphragm.
- 5 • Shear walls.
- 6 • Construction year.
- 7 • SPC category.
- 8 • Rocking.
- 9 • Seismicity.

10

11 Mr. Kalkan said that there were seven wood-frame hospital buildings candidates for  
12 instrumentation:

- 13 • Providence Redwood Memorial Hospital, Fortuna.
- 14 • Healdsburg Hospital, Healdsburg.
- 15 • Providence Santa Rosa Memorial Hospital, Santa Rosa.
- 16 • Hazel Hawkins Memorial Hospital, Hollister.
- 17 • Community Memorial Hospital – Ojai.
- 18 • Monterey Park Hospital, Monterey Park.
- 19 • Community Hospital of San Bernardino.

20 Mr. Sumer stated that the focus was on wood-frame buildings with uniform lateral  
21 systems to enhance understanding of their behavior.

22 Mr. Sumer communicated that the focus on single-story hospital buildings rather than  
23 two-story ones was because it is easier to identify common details and develop in-  
24 house clarifications regarding their performance in the past.

25 Mr. Bhatia mentioned that the primary reason most hospital buildings were one-story  
26 was that current fire codes would prevent the construction of two-story hospital  
27 buildings, indicating that primarily, it was related to fire requirements rather than  
28 structural considerations.

29 Mr. Malley asked for clarification on wood-frame commercial buildings and their usage.  
30 Mr. Sumer explained that commercial buildings were categorized as Type 1 or Type 2,  
31 both utilizing wood frame construction and designated for general acute care  
32 occupancy.

1 Mr. Hudson asked why there were only seven wood-frame hospital building candidates  
2 for instrumentation. Mr. Kalkan answered that the feasibility of adding sensors  
3 depended on the type and quantity planned, with fewer sensors potentially allowing for  
4 more buildings within the budget, while a larger number of sensors would limit the  
5 number of structures that could be instrumented.

6 Mr. Hudson asked whether the soil conditions were known for the selected sites of  
7 wood-framed hospital buildings intended for instrumentation. Mr. Sumer answered that  
8 while geotechnical reports were accessible, older sites lacked such data, suggesting  
9 consultation with the California Geological Survey to ascertain the soil conditions.

10 Mr. Haddadi asked for more details on the extent of the new approach of implementing  
11 more comprehensive instrumentation for the seven hospitals. Mr. Sumer answered that  
12 there was no extensive consideration on the level of instrumentation as it necessitated  
13 the evaluation of each building individually, and not all seven hospitals would be  
14 ultimately selected for instrumentation, some may be eliminated based on prioritization.

15 Mr. Haddadi asked if there were plans to utilize measurements other than laser  
16 measurement. Mr. Sumer answered that there were plans to use laser measurements  
17 but a later stage.

18 Mr. Haddadi asked for the differences in the frequency range between single-story  
19 frame buildings and mid- or multi-story buildings, or if it were the same across all  
20 building types. Mr. Naeim answered that for the long-term, sensors should be able to  
21 capture intervals from 0.05 seconds to 2 seconds, as there was less need for sensors to  
22 detect longer periods or high frequencies that do not usually cause much damage.

23 An interested party asked if there were any ground stations at the proposed locations  
24 for instrumentation. Mr. Haddadi answered that depending on the building size, the  
25 building might be considered a ShakeMap caliber or qualified station, suitable for use as  
26 a ground station.

27 Mr. Sumer asked what was likely to be prioritized on the soil conditions. Mr. Hudson  
28 suggested avoiding hard rock or very soft sites for the initial evaluation.

29

30 **MOTION: [Hudson/Malley]**

31 The committee unanimously voted to approve the selection of candidate wood-frame  
32 hospital buildings for HCAI instrumentation for further discussion and prioritization.

33

34 **Informational and Action item**

- 35 • None

36

37

1 **5. Plan Committee activities for 2024 and beyond**

2 **Presenter:** Farzad Naiem, Committee Chair

3 **Discussion and input**

4 Mr. Naiem proposed the move to weaponize instrumentation for structure health  
5 monitoring.

6 Mr. Malley said that major providers had consultants available after an event to assist in  
7 response efforts, and having instrumentation information immediately after the  
8 earthquake would be highly beneficial.

9 Mr. Bhatia explained the post-earthquake procedure, involving prioritized inspections  
10 based on ShakeMap notifications via email, followed by ATC-20 inspections by field  
11 staff to categorize buildings as per state law.

12 Mr. Haddadi suggested the use of real-time structural monitoring in the future to  
13 manage the cost of communication for real-time streaming of data.

14

15 **Informational and Action item**

- 16 • None.

17

18 **6. Comments from the public/committee members on issues not on this agenda**

19 **Presenter:** Marshall Lew, Committee Chair

20 **Discussion and input**

21 Future Instrumentation Committee meeting:

- 22 • October 29, 2024

23

24 **Informational and Action item**

- 25 • None.

26

27 **7. Adjournment**

28 Mr. Naeim adjourned the meeting on January 25, 2024, at approximately 12:00 p.m.

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# Structural and Nonstructural Regulations Committee

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Draft Meeting Report/Minutes

March 6, 2024

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



**HOSPITAL BUILDING SAFETY BOARD  
Structural and Nonstructural Regulations Committee**

**Wednesday, March 6, 2024  
10:00 a.m. – 4:00 p.m.**

**Teleconference Meeting Access:  
HBSB Teams SNSR Committee  
Access Code: 574-538-426**

**Committee Members Present**

Farzad Naeim, Vice Chair  
Cody Bartley  
Michael Davis  
Teresa Endres  
Martin Hudson  
Jennifer Thornburg

**HCAI Staff Present**

Chris Tokas, OSHPD Deputy Director  
Richard Tannahill  
Roy Lobo  
Mia Marvelli  
Carl Scheuerman  
Ali Sumer  
John Gray

**Consulting Member Present**

Mark Hershberg

**HBSB Staff Present**

Veronica Yuke, Acting Executive Director  
Marcus Palmer  
Evelt Torres

- 1 **1. Call to Order and Welcome**
- 2 **Facilitator:** Farzad Naeim, Ph.D., P.E., S.E.; Committee Vice-Chair
- 3 Mr. Naeim called the meeting to order at 10:00 a.m., welcomed everyone on behalf of
- 4 Jim Malley, and transitioned to roll call and meeting advisories with Veronica Yuke.
- 5
- 6 **2. Roll Call and Meeting Advisories/Expectations**
- 7 **Facilitator:** Veronica Yuke, Acting Executive Director

1 Ms. Yuke conducted the roll call, confirmed a quorum with more than five council  
2 members present, and outlined the rules of engagement and voting procedures for the  
3 Structural and Nonstructural Regulations Committee meeting.

### 4 **3. Triennial Code Cycle update and timelines**

5 **Facilitator:** Mia Marvelli, Architect, Supervisor; HCAI

6 Ms. Marvelli provided an update on the 2025 Title 24 code packages submission  
7 process for the triennial code cycle, highlighting key deadlines, including the final  
8 submission to the Building Standards Commission by May 3, 2024, and outlined the  
9 adoption process for the 2024 International Building Code (IBC) and International  
10 Existing Building Code (IEBC) with amendments. She emphasized the importance of  
11 the upcoming Building Standards Commission meetings and the role of code advisory  
12 committees in reviewing and providing technical feedback on the code packages, with  
13 final regulations to be adopted by January 1, 2026.

14

### 15 **4. Proposed continued amendments for risk category designation of Skilled** 16 **Nursing and Acute Psychiatric Facilities**

17 OSHPD proposes not to adopt model code change to Table 1604.5, Risk Category  
18 of Buildings and Other Structures. Model code revised the risk category for all I-2  
19 occupancies to Risk Category IV which may have conflicts with State law and a  
20 significant cost of compliance impact to skilled nursing and acute psychiatric  
21 facilities.

22 **Facilitator:** Chris Tokas, S.E., F. SEAOC, C.B.O., Deputy Director; HCAI

23 Mr. Tokas discussed the implications of adopting the 2024 IBC change that would  
24 categorize all Group I-2 occupancies, including skilled nursing and acute psychiatric  
25 facilities, into Risk Category IV, emphasizing the conflict with state law, significant  
26 compliance costs, and the established effective emergency preparedness and design  
27 standards in California. He highlighted California's advanced building code enforcement  
28 and quality assurance practices, ensuring the safety and functionality of healthcare  
29 facilities, and concluded with a decision to maintain the current risk category  
30 designations in the 2025 CBC based on these considerations.

### 31 **Committee Comments**

- 32 • Mr. Naeim commended Mr. Tokas for the informative presentation and critiqued the  
33 national code's feasibility for California, especially the significant underestimation of  
34 costs associated with moving from Risk Category II to IV.
- 35 • Martin Hudson inquired about the impact of not adopting the model code change on  
36 community resilience, specifically regarding the economic and operational roles of  
37 healthcare facilities in communities. Mr. Tokas highlighted California's proactive  
38 measures in building design for resilience and ductility, detailed strategies to ensure

1 healthcare facilities remain operational post-disaster, and reaffirmed California's  
2 leadership in code development for healthcare facility safety and resilience.

- 3 • Jennifer Thornburg expressed appreciation for Mr. Tokas' explanation but raised  
4 concerns about adherence to the Health and Safety Code requirement to follow the  
5 model code, urging a stronger emphasis on how California's approach aligns with  
6 health and safety objectives. Mr. Tokas agreed, acknowledging the importance of  
7 demonstrating compliance with health and safety regulations.

### 8 **Public Comment**

- 9 • A public member asked about distinctions for subacute beds. Mr. Tokas responded  
10 that subacute beds in skilled nursing facilities have extra resiliency requirements,  
11 including emergency power and design features to support patients.
- 12 • Another public member highlighted the high cost of building in California,  
13 emphasizing the significant impact of code changes on construction costs, especially  
14 for healthcare facilities. She noted concerns over a potential 20% increase in  
15 seismic load requirements leading to construction cost increases well beyond 2%,  
16 which could deter the development of new healthcare facilities and impact patient  
17 care in acute hospitals.

18

### 19 **MOTION: [Davis/Endres]**

20 The committee unanimously approved a motion to endorse the presentation to keep the  
21 risk categories as outlined in the current 2022 California Building Code by the Office of  
22 Statewide Hospital Planning and Development (OSHPD).

23

## 24 **5. Proposed amendments to the 2025 California Building Code (CBC), Title 24,** 25 **Part 1**

26 **Facilitator:** Ali Sumer, Ph.D., S.E., Supervisor; HCAI

27 Mr. Sumer discussed proposed amendments to the 2025 CBC, Title 24, Part 1, primarily  
28 focusing on Chapter 6, with an emphasis on editorial revisions and clarifications to  
29 streamline the code and enhance its applicability.

30 Key changes to Chapter 6 include:

- 31 • **Deletion of Extension for Administrative Extensions:** Removed the provision for  
32 an extension not to exceed two years, as it is now irrelevant.
- 33 • **Corrections to Section Numbers:** Aimed at improving navigation within the code,  
34 including correcting references and section numbers for damage control and  
35 structural performance categories.
- 36 • **Removal of Redundant Provisions:** Equivalent provisions in later editions of the  
37 CBC were removed to prevent confusion, particularly regarding damage control  
38 categories.

- 1 • **Hospital Building Seismic Compliance Plan:** Added a requirement for owners to  
2 submit a revised compliance plan by March 1, 2025, for buildings not in compliance  
3 with section 130065, aiming to refresh compliance plans that are decades old.
- 4 • **Adjustment of Submission Deadlines:** Changed NPC evaluation submittal  
5 deadlines from January 1st to March 1st to address logistical issues related to  
6 holiday periods, without altering the final compliance deadline of January 1 b, 2030.
- 7 • **Clarification on Seismic Design Categories:** Specified that the compliance plan  
8 requirements apply universally, addressing ambiguities around seismic design  
9 categories, particularly for hospitals.
- 10 • **Streamlining of NPC Project Requirements:** Simplified language around NPC 4D  
11 operational plans, making clear that not all utilities need to be detailed in  
12 submissions unless they are critical to seismic compliance.
- 13 • **Shear-Only Anchor Testing:** Clarified that shear-only anchors used in seismic  
14 bracing do not require tension testing, simplifying compliance for non-structural  
15 components.
- 16 • **Reorganization of Shear Load Sections:** Moved and clarified sections related to  
17 allowable shear loads for anchors, distinguishing between cast-in-place and post-  
18 installed anchors and referring to manufacturers' evaluation reports for capacity  
19 determination.
- 20 • **Elimination of Outdated Extension Details:** Removed historical extension details  
21 that are no longer relevant, simplifying the document and focusing on current and  
22 future compliance requirements.
- 23 • **Specification on NPC 3 Areas:** Defined the focus on NPC 3 areas for 4D  
24 evaluation reports, eliminating the need to detail minor utilities not subject to seismic  
25 requirements in these reports.
- 26 • **Clarification on Intermediate Milestone Exemptions:** Provided clear guidelines  
27 on exemptions for hospitals that do not plan to continue operations beyond 2030,  
28 reducing unnecessary submission requirements.

29  
30 Mr. Lobo discussed proposed amendments to Chapters 6 and 7 of the 2025 CBC, Title  
31 24, Part 1, focusing on editorial changes, updates to align with the IBC 2024, and  
32 specific revisions to definitions and compliance requirements.

33  
34 Key changes include:

- 35 • **Health and Safety Code Authorization:** Identified the specific health and safety  
36 code section that authorizes OSHPD to enforce the California Building Standards  
37 Code.
- 38 • **Alignment with IBC 2024:** Updated sections to reflect changes in the IBC 2024,  
39 including title changes and definitions.
- 40 • **Definitions Update:** Added and clarified definitions in Parts 2 and 10, and Chapter  
41 7 of Part 1, ensuring consistency with other California codes.

- 1 • **Name Change from Health to Hospital:** Updated OSHPD's designation to reflect  
2 its current name, changing references from health to hospital.
- 3 • **Electronic Submission of Geotechnical Reports:** Encouraged electronic  
4 submission of geotechnical reports while still allowing hard copies, simplifying  
5 submission processes.
- 6 • **Construction Documents Preparation:** Clarified that architects and engineers  
7 licensed in the appropriate branch may prepare construction documents, specifying  
8 the roles of civil engineers, architects, and structural engineers in preparing  
9 documents for the anchorage and bracing of non-structural components.
- 10 • **Pre-approvals Cleanup:** Revised language on pre-approvals to specify that not all  
11 pre-approved details need to be incorporated into construction documents, defining  
12 material alterations that would invalidate pre-approvals.
- 13 • **Site Data Reports and Design Documents:** Streamlined requirements for the  
14 submission of site data reports and clarified that design and construction documents  
15 must comply with the California Building Standards Code across various sections,  
16 including architecture, mechanical, and plumbing.

17

#### 18 **MOTION: [Hudson/Bartley]**

19 The committee unanimously approved a motion to approve the proposed amendments  
20 to the 2025 CBS title 24 Part 1 code changes as presented.

21

#### 22 **6. Proposed amendments to the 2025 CBC, Title 24, Part 2**

23 **Facilitators:** Roy Lobo, Ph.D., S.E., Principal Structural Engineer;

24 Emil Von Roth, S.E., Senior Structural Engineer; and Ali Sumer; HCAI

25 In a comprehensive discussion, Mr. Lobo discussed the proposed amendments to the  
26 2025 CBC, Title 24, Part 2, focusing on a wide range of updates from editorial cleanups  
27 to significant changes in code standards to align with the latest industry practices and  
28 the IBC 2024 model code.

29 Key changes include:

- 30 • **Alignment with IBC 2024:** Adapted sections to match the IBC 2024 changes,  
31 particularly in alternative materials and construction methods.
- 32 • **Definitions:** Expanded definitions to include new OSHPD categories (OSHPD 1,  
33 1R, 2, 4, & 5) and updated the definition of "freestanding" buildings.
- 34 • **Peer Review:** Adjusted peer review requirements reflecting model code changes.
- 35 • **Temporary Structures:** Specified that OSHPD may grant only one extension for  
36 temporary structures when cause is demonstrated.
- 37 • **Electronic Submission of Reports:** Transitioned to preferring electronic  
38 submission for geotechnical reports to streamline processes.
- 39 • **Construction Documents and Special Inspections:** Clarified the preparation of  
40 construction documents and updated requirements for special inspections and  
41 testing for structural steel.

- 1 • **Offsite Construction:** Defined and added new amendments for offsite construction,  
2 emphasizing regulatory compliance and inspection requirements.
- 3 • **Concrete and Masonry Changes:** Made significant updates in the concrete and  
4 masonry sections, including deleting outdated amendments and aligning with current  
5 standards.
- 6 • **Structural Steel Amendments:** Maintained risk categories for OSHPD 2 and  
7 OSHPD 5 and introduced criteria for specific moment connections.
- 8 • **Seismic and Wind Considerations:** Updated seismic design references to ASCE  
9 722 and specified considerations for wind tunnel tests.
- 10 • **Wood Construction:** Made minor updates to align with compliance methods for  
11 cross-laminated timber.
- 12 • **Lath and Plaster:** Added a minor change permitting the use of screws instead of  
13 staples for securing lath to supports.
- 14 • **Form and Plastic Insulation:** Removed the requirement for submitting certain  
15 insulation materials to OSHPD, simplifying the approval process.
- 16 • **Photovoltaic Systems:** Added design criteria for photovoltaic panel systems for  
17 wind and seismic loads.
- 18 • **Ballasted Photovoltaic Systems:** Classified as an alternative system, requiring  
19 specific attention and approvals.
- 20 • **Risk Categories for Skilled Nursing and Acute Psychiatric Facilities:** Decided to  
21 continue with the existing amendments from the 2022 code concerning risk  
22 categories.
- 23 • **Soil and Foundation:** Updated and clarified soil and foundation standards, deleting  
24 amendments that are now addressed in the model code.
- 25 • **Adhesive Anchors and Reinforcing Bars:** Updated testing requirements for  
26 adhesive anchors and reinforcing bars in concrete, simplifying testing protocols for  
27 certain conditions.

## 28 **Committee comments**

- 29 • Farzad Naeim suggested changing "system" to "method" in the wind tunnel section  
30 for accuracy, but Mr. Lobo explained that "alternative system" is a defined term in  
31 their compliance methods, justifying its current usage.
- 32 • Cody Bartley expressed concern over the quarter-inch diameter limit for post-  
33 installed anchors' proof testing exceptions, questioning its applicability. Mr. Lobo  
34 clarified that the limit was set due to smaller anchors typically not requiring testing  
35 due to low load bearing capacity but showed openness to revising this based on  
36 standard practice.
- 37 • Mark Hershberg inquired about the inclusion of "tiny house" in the definition of offsite  
38 construction, leading Mr. Lobo to acknowledge the need to review its  
39 appropriateness and relevance to OSHPD.
- 40 • Martin Hudson suggested clarifying groundwater considerations in geotechnical  
41 reports to include both current levels and anticipated changes during the structure's

1 life. Mr. Lobo responded positively to reviewing and potentially refining the language  
2 for clarity and accuracy.

- 3 • Jennifer Thornburg warned against specifying future groundwater levels due to  
4 unpredictability, emphasizing using historical high groundwater levels for liquefaction  
5 analysis. Her comment led to a discussion on the importance of considering both  
6 historical and current groundwater levels in geotechnical reports, aligning with  
7 Mr. Lobo's acknowledgment of the need for clear guidance in the documentation.

### 8 **Public comment**

- 9 • A public member inquired about the classification of group I-2 occupancies in risk  
10 category 4, seeking clarification on whether language in tables 1604.5 and 1604A.5  
11 would be modified for skilled nursing and acute care. Mr. Lobo clarified that an  
12 amendment already specifies categories for OSHPD 2 and OSHPD 5 as category 3,  
13 not 4, with model code language remaining standard but amended for OSHPD  
14 applicability. Richard Tannahill further clarified that OSHPD 5's reference is being  
15 deleted since it doesn't apply, aligning with OSHPD 1 for facilities without emergency  
16 surgery.
- 17 • The same public member questioned the use of proprietary names like Simpson  
18 Strong Tie in the code. Mr. Lobo responded that it's acceptable as these are already  
19 included in AISC 358, which lists specific systems without giving preference to any.

### 21 **MOTION: [Bartley/Davis]**

22 The committee unanimously approved a motion to approve the proposed amendments  
23 to the 2025 CBC, Title 24 Part 2 as presented with additional comments.

## 25 **7. Proposed amendments to the 2025 CBC, Title 24, Part 10**

26 **Facilitators:** Roy Lobo, Ph.D., S.E., HCAI

27 Mr. Lobo presented the proposed amendments to the 2025 CBC, Title 24, Part 10,  
28 focusing on aligning with the 2024 International Existing Building Code (IEBC) and  
29 adjusting for name changes to reflect the Office of Statewide Hospital Planning and  
30 Development. The presentation detailed various editorial changes, adoption of new  
31 standards, and clarification of existing regulations to ensure they are up to date with the  
32 current practices and standards.

33 Notable changes include:

- 34 • Adoption of ASCE 41-13 for SPC-2 and SPC-4D buildings, and ASCE 41-23 for  
35 other OSHPD 1 buildings.
- 36 • Updates and clarifications based on ASCE 41 section references and terminologies  
37 due to the transition to ASCE 41-23.
- 38 • Introduction of specific provisions for wood building performance levels in relation to  
39 hold down requirements.

- 1 • Adjustments in risk categories to align with model code language and ensure clarity
- 2 for specific OSHPD categories.
- 3 • Deletion of amendments now addressed in the model code to reduce redundancy.
- 4 • Inclusion of qualifying non-acute services, like chemical dependency recovery
- 5 services, in the definition of freestanding buildings.
- 6 • Structuring and deletion of specific sections for clearer guidance and compliance
- 7 with the latest standards.

8

9 **MOTION: [Hudson/Bartley]**

10 The committee unanimously approved a motion to approve the proposed amendment to

11 the 2025 CBC Title 24, part 10 as presented.

12

13 **8. Comments from the public/committee members on issues not on this agenda**

14 **Presenter:** Farzad Naeim

15 No comment.

16 **9. Adjournment**

17 The meeting was adjourned by Mr. Naeim at 1:15 p.m.

# Education and Outreach Committee

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Draft Meeting Report/Minutes

February 8, 2024



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



**HOSPITAL BUILDING SAFETY BOARD  
Education and Outreach Committee**

**Thursday, February 8, 2024  
10:00 a.m. – 4:00 p.m.**

**Teleconference Meeting Access:**

HBSB Teams EO Committee  
Access Code: 749-343-732

**Committee Members Present**

Scott Mackey, Chair  
Cody Bartley, Vice Chair  
Louise Belair  
Janice Cheung  
Michael Davis  
Gary Dunger  
Teresa Endres  
Bert Hurlbut  
Jim Malley

**Consulting Members Present**

Kelly Martinez  
Bruce Rainey

**HCAI Staff Present**

Chris Tokas, OSHPD Deputy Director  
Richard Tannahill  
Arash Altoontash  
Monica Colosi  
Joe LaBrie  
Mia Marvelli  
Jamie Schnick  
John Gray

**HBSB Staff Present**

Veronica Yuke, Acting Executive Director  
Marcus Palmer  
Evelt Torres

**1. Welcome and Introductions**

- 2 Scott Mackey, Committee Chair, called the meeting to order on February 8, 2024, at
- 3 10:00 a.m., and HBSB Acting Executive Director, Veronica Yuke called roll.

1 **2. Roll Call and Meeting Advisories/Expectations**

2 Seven members of the Committee present constitute a quorum. There being eleven  
3 present at the time of roll, a quorum was established.

4  
5 Ms. Yuke read the meeting rules and procedures.

6  
7 **3. Committee review of 2023 accomplishments**

8 **Presenter:** Scott Mackey, Committee Chair

9 **Discussion and Input**

10 Mr. Mackey stated that in 2023, the Education and Outreach committee held three  
11 webinars and two seminars:

- 12 • OSHPD 3 Clinics webinars.
  - 13 ▪ Session 1: Special Code Provisions for Clinics—May 16, 2023.
  - 14 ▪ Session 2: Considerations for Design & Construction—May 18, 2023.
  - 15 ▪ Presenters: Richard Tannahill, Gary Dunger, Nanci Timmins, and
  - 16 David Khorram.
- 17 • Robots & Robotics in Hospitals webinar.
  - 18 ▪ June 29, 2023.
  - 19 ▪ Presenter: Nanci Timmins.
- 20 • Guide for Working on OSHPD Projects—Tips from the Experts seminars.
  - 21 ▪ Newark/Fremont—October 5, 2023.
  - 22 ▪ Irvine—October 10, 2023.
  - 23 ▪ Presenters: Chris Tokas, Richard Tannahill, Gary Dunger, Kelly Martinez,
  - 24 Bert Hurlbut, Marshall Lew, Scott Mackey, Jim Malley, Louise Belair, John
  - 25 Griffiths, Joe LaBrie, Monica Colosi, and Mia Marvelli.

26  
27 **Informational and Action item**

- 28 • None

29  
30 **4. Update on the Guide for Working on OSHPD Projects—Tips from the Experts**

31 **Presenter:** Paul Coleman and Mia Marvelli, HCAI

32 **Discussion and Input**

1 Ms. Marvelli mentioned that in March 2024, Mr. Tannahill, Mr. Dunger, and Ms. Endres  
2 would present the Planning and Preparing for Disasters Guide at the 2024 International  
3 Summit and Exhibition on Health Facility Planning, Design, and Construction in San  
4 Diego, scheduled for March 17th to the 20th.

5 Mr. Coleman highlighted that the changes made to the Guide for Working on OSHPD  
6 Projects—Tips from the Experts were:

- 7 • **Preamble** - Identified code that was reflected in the version being published.
- 8 • **How to Use This Guide** - New section was added.
- 9 • **Section 1: Introduction to the Office of Statewide Hospital Planning and**  
10 **Development.**
  - 11 ▪ Added commentary regarding the renaming of OSHPD to HCAI and FDD to  
12 OSHPD.
  - 13 ▪ Moved information regarding processes from Subsection 1.0 to Subsection  
14 1.5 and made revisions.
  - 15 ▪ OSHPD Structure retitled to OSHPD Organization and added additional  
16 Support Section Unit and expanded on HBSBs role.
  - 17 ▪ Expanded information in Subsection 1.6 regarding the eSP.
- 18 • **Section 3: Plan Design and Review Guidelines**
  - 19 ▪ Added information regarding Incremental Submittals and Integrated Review  
20 for large projects.
  - 21 ▪ Added Subsection 3.2B regarding time limitations.
  - 22 ▪ Added subsection 3.3.E – Added architectural drawing content.
  - 23 ▪ FLS - eliminated most detailed checklists and referenced Quality Assurance  
24 Checklists, PINs, CANs, applicable code sections, etc.
  - 25 ▪ Changed Equipment Anchorage subsection to Anchorage and Bracing of  
26 Equipment and Systems.
  - 27 ▪ Added new subsection 3.9 – Part 6 of Title 24 – Energy Code Compliance  
28 (CESC).
  - 29 ▪ Added new subsection 3.10 – Seismic Compliance.
  - 30 ▪ Added new subsection 3.14 - Building Information Modeling (BIM).
  - 31 ▪ Added new subsection 3.15 – Project Closure.
  - 32 ▪ Contents updated and new Sections/Subsections drafted by OSHPD Experts.

- 1       • **Section 4: Inspector of Record Guidelines, and Section 5: Testing,**
- 2       **Inspection.**
- 3       ▪ Added information regarding the three levels of IORs that OSHPD certifies
- 4       and the extent of hospital construction each is permitted to inspect.
- 5       ▪ Revised Code of Ethics to be Conduct Relative to Performance.
- 6       ▪ Paraphrased IOR duties instead of citing CAC.
- 7       ▪ Added subsection regarding Project Closure.
- 8       ▪ Contents updated by the OSHPD Experts, including a former IOR, CO, and
- 9       RCO, and the current RCO of the ISU.
- 10      ▪ Eliminated detailed description of the IORs Inspection Request Program as
- 11      these may vary widely between IORs.
- 12      ▪ Added term Certified Hospital Inspector (CHI).
- 13      ▪ Changed Testing Laboratory to be Approved Agency.
- 14      • **Section 6: Guidelines for Contractors Working on OSHPD Projects.**
- 15      ▪ New Section to replace the section titled: Guidelines for working with OSHPD
- 16      Field Staff.
- 17      ▪ The Section Subsections:
- 18          ▪ Introduction.
- 19          ▪ Overview of the Process.
- 20          ▪ Inspector of Record.
- 21          ▪ Testing, Inspection, and Observation Program (TIO).
- 22          ▪ Preconstruction Meeting.
- 23          ▪ Inspection Request Program.
- 24          ▪ Challenges and Recommendations.
- 25      • **Section 7: Guidelines for Hospitals Working with OSHPD**
- 26      ▪ Emphasized impacts of Amended Construction Documents throughout the
- 27      Section.
- 28      ▪ Added new Subsection 7.8 – Close-out Phase.
- 29      ▪ Added new Subsection 7.9 – Commissioning, Start-up, and
- 30      Occupancy/Use (Activation).
- 31      ▪ Contents edited by an expert – former Staff Architect for a General Acute
- 32      Care Hospital.
- 33      • **Section 8: Guidelines for Project Closure.**
- 34      ▪ New section added to include the following subsections:

- 1           ▪ Introduction.
- 2           ▪ Types of Project Closures.
- 3           ▪ Project Team Closure Responsibilities.
- 4           ▪ Owners Responsibilities.
- 5           ▪ Why is Closure in Compliance Important?
- 6           ▪ Re-opening Closed Projects.

- 7           • **Glossary:** Edited.

8   **5. Update on the Guide for Planning and Preparing for Disasters (formerly the**  
9   **Emergency Design Guide)**

10 **Presenter:** Paul Coleman

11 **Discussion and input**

12 Mr. Coleman said the Guide name was changed from Emergency Design Guide to  
13 Guide for Planning and Preparing for Disasters.

14

15 Mr. Coleman mentioned that the changes made to the Guide were:

- 16           • Format - moving from chapters to sections and sub-sections, to have standard  
17           uniformity across all guides.
- 18           • New section added on planning, preparing, implementing solutions from seismic  
19           events.

20 Mr. Coleman said that the Guide contained:

- 21           • Section 1- Introduction to the design guide for emergency projects.
- 22           • Section 2 - Planning, preparing, and implementing solutions for a seismic event.
- 23           • Section 3 - Emergency patient room ventilation conversion.
- 24           • Section 4 - Emergency operations for surge capacity.
- 25           • Section 5 - Spaces that can be split into multiple zones.
- 26           • Section 6 - Other considerations for surge capacity.
- 27           • Section 7 - How to handle smoke during wildfire events.
- 28           • Section 8 - Upgrading air filters.
- 29           • Section 9 - How to expedite emergency projects.
- 30           • Section 10 - OSHPDs response for disasters.
- 31           • Section 11- Coordination with other jurisdictions for temporary surge facilities and  
32           alternate care sites.
- 33           • Acronyms and Abbreviations.

1 Mr. Mackey stated that it would benefit the Guide to have both the hyperlinks and the  
2 QR Codes.

3

#### 4 **Informational and Action item**

- 5 • None.

6

#### 7 **6. Update on the Policy Intent Notice (PIN) 50 – Integrated Review (IR) webinar**

8 **Presenter:** Gary Dunger, Committee Member

#### 9 **Discussion and input**

10 Mr. Dunger stated that PIN 50 would be a one-hour webinar presentation that focuses  
11 on client perspective including Accela access and contributor license information.

12 Mr. Dunger mentioned that the assumed presenters for the webinar would be himself,  
13 Ms. Navarro, and Ms. Colosi as the moderator.

14 Mr. Dunger highlighted that the agenda for the webinar would include:

- 15 • Purpose.
- 16 • Background.
- 17 • Definitions.
- 18 • Procedure.
- 19 • Electronic Review Process.
  - 20 ▪ Contributor Role.
  - 21 ▪ Accessing Review Comments.
  - 22 ▪ Exporting Comments.
  - 23 ▪ Responding to Comments.
  - 24 ▪ Available Reports.

25

26 Mr. Dunger gave an outline of the webinar:

- 27 • Development of PIN 50 – discuss projects that are best suited for IR and their  
28 criteria.
- 29 • Client perspective - requirements for pre-submittal meetings and Request for  
30 Integrated Review (RIR) process.
- 31 • Review and approval of RIR by OSHPD.

- 1       • Submitting applications for the incremental master, identifying increments for the  
2            projects, and establishing milestones that work for OSHPD and the design team.

3 Mr. Dunger discussed the content of the webinar:

- 4       • Importance of trust – importance of OSHPD to have trust in clients.  
5       • Lessons learned.  
6       • Eliminate/minimize duplicative review efforts.  
7       • e-Plan Soft.  
8           ▪ Primarily building departments.  
9           ▪ Understand the key enhancements that have made IR the right option for  
10           large projects with integrated project design/construction teams.

11

12

13 **Informational and Action item**

- 14       • None.

15

16 **7. Update on the Offsite Fabrication/Preassembled Components webinar**

17 **Presenter:** Cody Bartley and Teresa Endres, Committee Members

18 **Discussion and input**

19 Mr. Bartley stated that the TIO draft was waiting on some input on fire life safety  
20 considerations regarding prefabrication.

21 Mr. Bartely suggested a subcommittee meeting on February 28, 2024.

22 Mr. Mackey proposed having the PIN 50 webinar in late spring and the Offsite  
23 Fabrication/Preassembled Components webinar in early summer.

24 Ms. Belair asked if it would make sense to have the Offsite Fabrication/Preassembled  
25 Components webinar before the PIN 50 webinar. Mr. Tokas answered that there would  
26 be a clear schedule for the webinar after the subcommittee meeting.

27 **Informational and Action item**

- 28       • None.

29

30 **8. New opportunities for educational events or programs**

31 **Presenter:** Scott Mackey, Committee Chair

32 **Discussion and input**

1 Ms. Martinez talked about thoughts and ideas for events or programs to consider for  
2 2024 and beyond:

- 3 • Classification of imaging procedures into Class 1, 2, and 3.
- 4 • Revisiting Inspect-to-Pass approach to field inspections.
- 5 • OSHPD 6 roll out.
- 6 • Tips on how to work with HCAI in the field.
- 7 • Working with photovoltaics, microgrids, battery systems, and fire alarms.
- 8 • How to write a functional program and operational program, and how to make it  
9 easy for the California Department of Public Health (CDPH) to approve.
- 10 • Develop a formal design professional mentorship program with HCAI.
- 11 • Discussion and public input.

12  
13 Ms. Endres suggested the CDPH-approved approach on the acuity adjustable patient  
14 unit be added to the list.

15 Mr. Tokas emphasized the importance of bringing key topics to the industry and  
16 proposed that the Education and Outreach Committee prioritize specific items to deliver  
17 more effectively through individual webinars or seminars.

18 **Informational and Action item**

- 19 • None.

20  
21  
22 **9. Comments from the public/committee members on issues not on this agenda**

23 **Presenter:** Scott Mackey, Committee Chair

24  
25 Future Education and Outreach Committee meetings:

- 26 • May 22, 2024.
- 27 • August 1, 2024.
- 28 • September 26, 2024.

29  
30 **Discussion and input**

- 31 • None.

32  
33 **Informational and Action item**

1 • None.

2

3 **10. Adjournment**

4 Mr. Mackey adjourned the meeting on February 8, 2024, at approximately 12:07 p.m.

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# Offsite Fabrication/ Preassembled Components Webinar Subcommittee of the Education and Outreach Committee

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Draft Meeting Report/Minutes

February 28, 2024



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



**HOSPITAL BUILDING SAFETY BOARD  
Offsite Fabrication/Preassembled Components Webinar Development  
Subcommittee**

**Wednesday, February 28, 2024  
10:00 a.m. – 4:00 p.m.**

**Teleconference Meeting Access:  
HBSB Teams EO Committee  
Access Code: 233-292-155**

**Sub-Committee Members Present**

Cody Bartley, Subcommittee Chair  
Scott Mackey, Vice-Chair  
Teresa Endres

**HBSB Staff Present**

Veronica Yuke, Acting Executive Director  
Marcus Palmer  
Evelt Torres

**HCAI Staff Present**

Chris Tokas  
Richard Tannahill  
Joe LaBrie  
Mia Marvelli  
Ali Sumer  
Nanci Timmins  
John Gray

**1. Welcome and Introductions**

Cody Bartley, Subcommittee Chair, called the meeting to order on February 28, 2024, at 10:00 a.m., and HBSB Acting Executive Director, Veronica called roll.

**2. Roll Call and Meeting Advisories/Expectations**

Three members of the Committee present constitute a quorum. There being three present at the time of roll, a quorum was established.

Ms. Yuke read the meeting rules and procedures.

1 **3. Discussion on additional draft content for Offsite Fabrication/Preassembled**  
2 **Components webinar**

3 **Presenter:** Cody Bartley, Subcommittee Chair

4 **Discussion and Input**

5 Mr. Bartley provided updates on the progress of the webinar topics:

- 6 • HCAI view of prefabrication and preapproved fabricated components –  
7 working with Mr. Tokas and Mr. Tannahill on getting the final quote.
  - 8 • Architect view – Ms. Endres or Mr. Mackey
  - 9 • Contractor view– Mr. Bartley
  - 10 • Background of prefabrication – Mr. Tannahill or Mr. Tokas
  - 11 • Definitions – Mr. Tannahill or Mr. Tokas
  - 12 • Prefabricated systems – Mr. Asgari and Mr. Sumer
  - 13 • Examples of preassembled or prefabricated options – Mr. Bartley and  
14 Ms. Endres
  - 15 • Distinctions between offsite prefabrication – Mr. Bartley and Mr. Tannahill
  - 16 • Purpose – Mr. Asgari
  - 17 • The Why – Mr. Bartley and Ms. Endres
  - 18 • Goals of Preapproved Prefabricated Components and Systems (PPCS) –  
19 Mr. Bartley
  - 20 • Design for manufacture and assembly – Ms. Endres and Mr. Mackey
  - 21 • Timing to integrate PPCS into design – Ms. Endres and Mr. Mackey
  - 22 • PPCS approval process – Mr. Sumer
  - 23 • Offsite project-specific prefabrication – Mr. Bartley
  - 24 • Offsite prefabrication inspection process – Mr. Bhatia
    - 25 • Offsite inspection at prefabrication site
    - 26 • On-site inspections
    - 27 • Weatherization
    - 28 • Change management
    - 29 • Examples of PPCS on HCAI projects
  - 30 • The Ask – point of putting up the webinar – Mr. Bartley
- 31

1 Mr. Tokas emphasized the need for the TIO to address all relevant items, not just  
2 specific projects.

3 Mr. Bartley suggested adding a summary slide outlining the steps of inspections and  
4 fabrications.

5 Mr. Tokas suggested using UCSF as an example model for preassembling components  
6 due to limited space on the site, which would facilitate both preassembly and delivery to  
7 the site.

8 Mr. Mackey proposed addressing the difference between prefabrication and  
9 preassembling earlier in the presentation. Ms. Endres recommended using flow charts  
10 to graphically represent the difference between the two.

11 Mr. Bartley said that the Kaiser Roseville slide was missing some pictures. Ms. Endres  
12 said that Ms. Young had more pictures to be added to the slide. Ms. Endres suggested  
13 adding mockups that were created in the warehouse to the bullet points on the Kaiser  
14 Roseville slide.

15 Mr. Tokas asked when the seminar would take place. Mr. Tannahill answered that the  
16 seminar would be either in the spring or early summer of 2024.

17

#### 18 **Informational and Action item**

- 19 • None

20

#### 21 **4. Discuss Next Steps to Finalize Webinar**

22 **Presenter:** Cody Bartley, Subcommittee Chair

23 Mr. Bartley suggested a two-week deadline to have all the slides presentation in place.

24 Mr. Bartley said there should be a subcommittee meeting in the middle of March for a  
25 final draft review and another at the end of March or the beginning of April for a dry run  
26 through the webinar content.

#### 27 **Discussion and Input**

- 28 • None

29

#### 30 **Informational and Action item**

- 31 • None

32

#### 33 **5. Comments from the public/committee members on issues not on this agenda**

34 **Presenter:** Cody Bartley, Subcommittee Chair

1 **Discussion and input**

- 2 • None.

3

4 **Informational and Action item**

- 5 • None.

6

7 **6. Adjournment**

8 Mr. Bartley adjourned the meeting on February 28, 2024, at approximately 10:47 a.m.

# Board Rosters

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**April 2024**

COMMITTEE LIST

BOARD MEMBERSHIP

CONSULTING COMMITTEE MEMBERS

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**HOSPITAL BUILDING SAFETY BOARD  
2024 COMMITTEES**

**BOARD PROCEDURES COMMITTEE (AD HOC)**

<p><b><u>Committee Members:</u></b>  Michael Foulkes, Chair  Gary Dunger, Vice-Chair  Louise Belair  Jim Malley</p>	<p><b><u>HCAI Representatives:</u></b>  Joe LaBrie  Carl Scheuerman</p> <p><b><u>Meeting Dates:</u></b></p>
<p><b>Focus/Goals:</b></p> <ul style="list-style-type: none"> <li>• Meet as needed for: <ul style="list-style-type: none"> <li>○ Policies and Procedures updates.</li> <li>○ Nominating committee, training/onboarding members.</li> </ul> </li> </ul>	

**CODES AND PROCESSES COMMITTEE**

<p><b><u>Committee Members:</u></b>  Michael O'Connor, Chair  Teresa Endres, Vice-Chair  Cody Bartley  Louise Belair  Michael Davis  Gary Dunger  John Griffiths  Scott Mackey  Jim Malley  Farzad Naeim</p>	<p><b><u>HCAI Representatives:</u></b>  Brett Beekman  Larry Enright  Joe LaBrie  Roy Lobo  Bob Lyons  Mia Marvelli  Diana Navarro  Carl Scheuerman  Jamie Schnick  Nanci Timmins</p> <p><b><u>Meeting Dates:</u></b>  January 10  February 21  May 8  September 11</p>
<p><b><u>Consulting Members:</u></b>  Mark Hershberg  Kelly Martinez  Belinda Young</p>	
<p><b>Focus/Goals:</b></p> <ul style="list-style-type: none"> <li>• Update CANs and PINs to code (ongoing).</li> <li>• eTIO Program.</li> <li>• Evaluate standard details for SNFs.</li> <li>• Title 24 <ul style="list-style-type: none"> <li>○ Identify code modifications to support implementation of building standards code.</li> </ul> </li> </ul>	

## **EDUCATION AND OUTREACH COMMITTEE**

### **Committee Members:**

Scott Mackey, Chair  
Cody Bartley, Vice-Chair  
Louise Belair  
Janice Cheung  
Michael Davis  
Gary Dunger  
Teresa Endres  
Bert Hurlbut  
Jim Malley

### **Consulting Members:**

Kelly Martinez  
Bruce Rainey  
Belinda Young  
Bill Zellmer

### **HCAI Representatives:**

Hussain Bhatia  
Monica Colosi  
Joe LaBrie  
Mia Marvelli  
Jamie Schnick  
Nanci Timmins

### **Meeting Dates:**

February 8  
May 22  
August 1  
September 26

### **Focus/Goals:**

- Support the development of webinars.
- Develop a regular curriculum and predictable calendar for webinars.
- Revisions to “Guide for Working on OSHPD Projects – Tips from the Experts.”
- Emergency Design Guide.
- Webinars for Imaging Classes 1, 2, & 3.
- Emergency Design Guide (seminar TBD).
- Tips on how to work with OSHPD in the field (seminar TBD).
- OSHPD 6 – Chemical Dependency (webinar).
- Inspect to Pass (webinar).
- Work with Instrumentation Committee regarding webinar/seminar on instrumentation white paper.

## **OFFSITE FABRICATION/PREASSEMBLED COMPONENTS WEBINAR DEVELOPMENT SUBCOMMITTEE (OF THE EDUCATION AND OUTREACH COMMITTEE)**

### **Subcommittee Members:**

Cody Bartley, Chair  
Scott Mackey, Vice Chair  
Teresa Endres

### **Consulting Members:**

Kelly Martinez

### **HCAI Representatives:**

Hussain Bhatia  
Joe LaBrie  
Mia Marvelli  
Ali Sumer  
Nanci Timmins

### **Meeting Dates:**

February 28  
March 26  
April 24

### **Focus/Goals:**

- Discussion on additional draft content for the Offsite Fabrication/Preassembled Components webinar
- Discuss next steps to finalize webinar.

## **ENERGY CONSERVATION AND MANAGEMENT COMMITTEE**

### **Committee Members:**

Cody Bartley, Chair  
John Griffiths, Vice-Chair  
Louise Belair  
David Bliss  
Janice Cheung  
Gary Dunger  
Michael Foulkes  
Scott Mackey

### **HCAI Representatives:**

Larry Enright  
Mia Marvelli  
Carl Scheuerman  
Jamie Schnick  
Nanci Timmins

### **Meeting Dates:**

April 3 - CANCELLED  
October 9

### **Consulting Members:**

Eric Johnson  
David Lockhart

### **Focus/Goals:**

- Identify HCAI research projects for energy conservation, reduction of carbon footprint, and cost savings while maintaining health and safety alternate energy sources.
  - Consider systems and monitoring devices for other environmental conditions.
- Pursue indoor air quality at a lesser energy cost for healthcare.
- Optimize water usage in healthcare environments. Efficiency/Sustainability.

## **INSTRUMENTATION COMMITTEE**

### **Committee Members:**

Farzad Naeim, Chair  
Jim Malley, Vice-Chair  
Martin Hudson  
Jennifer Thornburg

### **HCAI Representatives:**

Hussain Bhatia  
Erol Kalkan  
Roy Lobo  
Ali Sumer

### **Consulting Members:**

Hamid Haddadi  
Moh Huang  
Tony Shakal

### **Meeting Dates:**

January 25  
October 29

### **Focus/Goals:**

- Continue working with HCAI staff on scheduled instrumentation installations.
- Consider other systems and monitoring devices.
- Collaborate with CGS on prioritizing upgrades to existing instrumentation.
- Work with EO Committee regarding webinar/seminar on instrumentation white paper.

## **STRUCTURAL AND NON-STRUCTURAL REGULATIONS COMMITTEE**

### **Committee Members:**

Jim Malley, Chair  
Farzad Naeim, Vice-Chair  
Cody Bartley  
Louise Belair  
Michael Davis  
Teresa Endres  
Martin Hudson  
Jennifer Thornburg

### **HCAI Representatives:**

Joe LaBrie  
Roy Lobo  
Mia Marvelli  
David Neou  
Carl Scheuerman  
Jamie Schnick  
Ali Sumer

### **Meeting Dates:**

March 6  
July 17

### **Consulting Member**

Mark Hershberg

### **Focus/Goals:**

- Support HCAI with review of code changes (ongoing).
- Support HCAI with review of new/revised PINs, CANs, and OPDs (ongoing).
- Implementation of SPC-4D and NPC-4D.
- Develop pre-approved details.
- Seismic compliance issues related to NPC-3, NPC-4D, and NPC-5. Streamlining the process for compliance to meet the statutory and regulatory deadline.
- Review of Code amendments that are now obsolete as those issues have been addressed in model code.
- Develop and implement procedures and enforceable building standards to ensure safe and sustainable healthcare facilities.
- Consider new products, materials and methods that would benefit the public by early adoption rather than waiting for their incorporation in the building code.

## **TECHNOLOGY AND RESEARCH COMMITTEE**

### **Committee Members:**

Gary Dunger, Chair  
Cody Bartley, Vice-Chair  
David Bliss  
Janice Cheung  
Teresa Endres  
Michael Foulkes  
John Griffiths  
Bert Hurlbut  
Scott Mackey  
Michael O'Connor

### **Consulting Members:**

Benjamin Broder  
Eric Johnson  
Belinda Young

### **HCAI Representatives:**

Hussain Bhatia  
Larry Enright  
Joe LaBrie  
Carl Scheuerman  
Jamie Schnick  
Nanci Timmins

### **Meeting Dates:**

June 4  
November 12

### **Focus/Goals:**

- Explore subjects of telemedicine and robotics
- Discuss the effect of technologies on healthcare equity
- Explore emerging technologies that help reduce the carbon footprint for healthcare facilities and implementation relative to code implementation of emerging tools relative to the code.
- Address how to regulate remote services (e.g., medical records, web-based nurse call, off-site server farms, etc.)
  - Define what is a medical record
  - Monitor CDPH electronic health records redundancy issues in the event of power failure and watch for potential effects to code
  - Invite industry members to address/inform the committee on the reliability of cloud-based systems (fire alarm, energy monitoring, etc.)
- Explore wastewater solutions

## **FULL BOARD MEETING DATES**

April 18 – Sacramento  
August 15 – Los Angeles  
December 10 and 11 – Sacramento

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## HOSPITAL BUILDING SAFETY BOARD MEMBERSHIP

### Appointed Members (Appointed by HCAI Director)

MEMBERSHIP CATEGORIES	NAMES	APPNTMNT DATE	TERM EXP DATE	TERM OF SERVICE
2 structural engineers	James O. Malley**	8/2020	8/2024	1 <sup>st</sup> term
	Farzad Naeim	8/2021	8/2025	1 <sup>st</sup> term
2 architects	Teresa Endres	8/2023	8/2027	1 <sup>st</sup> term
	Scott Mackey	8/2021	8/2025	1 <sup>st</sup> term
1 engineering geologist	VACANT	--	--	--
1 geotechnical engineer	Martin B. Hudson	12/2023	12/2027	1 <sup>st</sup> term
1 mechanical engineer	Louise Belair*	6/2017	6/2025	2 <sup>nd</sup> term
1 electrical engineer	John Griffiths	8/2022	8/2026	1 <sup>st</sup> term
1 hospital facilities manager	Gary Dunger	12/2022	12/2026	1st term
1 local building official	VACANT	--	--	--
1 general contractor	Cody Bartley	8/2022	8/2026	1 <sup>st</sup> term
1 fire/life safety representative	Janice Cheung	12/2023	12/2027	1 <sup>st</sup> term
1 hospital inspector of record	Michael L. Davis	8/2023	8/2027	1 <sup>st</sup> term
3 public members	VACANT	--	--	--
	David Bliss	5/2016	5/2024	2 <sup>nd</sup> term
	D. Michael Foulkes	6/2017	6/2025	2 <sup>nd</sup> term
<b>TOTAL</b>	<b>16</b>			

Ex-Officio Members		
HCAI, Director	Elizabeth Landsberg	No Term of Office Stipulated
State Fire Marshal	Daniel Berlant Wendy Collins (Delegate)	
State Geologist	Jeremy Lancaster Jennifer Thornburg (Delegate)	
Building Standards Commission, Executive Director	Kevin Day (Acting) Irina Brauzman (Delegate)	
Department of Public Health, Director	Tomás J. Aragón, M.D., Dr. P.H. Nathaniel Gilmore (Delegate)	
OSHPD, Deputy Director	Chris Tokas	
<b>TOTAL</b>	<b>6</b>	

Director Appointed Ex-Officio Members (Serve at pleasure of Director)		
2 members	Bert Hurlbut Michael O'Connor	No Term of Office Stipulated
<b>TOTAL</b>	<b>2</b>	
<b>TOTAL HBSB Members</b>	<b>24</b>	

\*Louise Belair: Chair 2021-2024 (2<sup>nd</sup> term)

\*\*Jim Malley: Interim Vice-Chair 2024 (elected Dec. 2023)

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## 2024 CONSULTING COMMITTEE MEMBERS

<p><b>Benjamin Broder, MD, PhD, CPPS</b>          Kaiser Permanente/So. California          393 E. Walnut St. 3<sup>rd</sup> Floor NW          Pasadena, CA 91188-8034  <b>(626) 405-2501</b>  <a href="mailto:Benjamin.I.Broder@kp.org">Benjamin.I.Broder@kp.org</a></p> <ul style="list-style-type: none"> <li>• Technology and Research Committee</li> </ul>	<p><b>Hamid Haddadi</b>          California Geological Survey          801 K Street, MS 13-35          Sacramento, CA 95814  <b>(916) 322-9304</b> FAX: (916) 323-7778  <a href="mailto:Hamid.Haddadi@consrvation.ca.gov">Hamid.Haddadi@consrvation.ca.gov</a></p> <ul style="list-style-type: none"> <li>• Instrumentation Committee</li> </ul>
<p><b>Mark Hershberg, SE</b>          KPFF Consulting Engineers          6080 Center Drive, Suite 300          Los Angeles, California 90045  <b>(310) 665-1536</b>  <a href="mailto:MHershberg@kpf-la.com">MHershberg@kpf-la.com</a></p> <ul style="list-style-type: none"> <li>• Codes and Processes Committee</li> <li>• Structural and Nonstructural Regulations Committee</li> </ul>	<p><b>Moh Huang</b>          California Geological Survey  <a href="mailto:Moh.Huang@gmail.com">Moh.Huang@gmail.com</a></p> <ul style="list-style-type: none"> <li>• Instrumentation Committee</li> </ul>
<p><b>Eric C. Johnson, PE</b>          President          ECOM Engineering, Inc.          1796 Tribute Road, Suite 100          Sacramento, CA 95815  <b>(916) 641-5600</b>  <a href="mailto:ECJ@ecomeng.com">ECJ@ecomeng.com</a></p> <ul style="list-style-type: none"> <li>• Energy Conservation and Management Committee</li> <li>• Technology and Research Committee</li> </ul>	<p><b>David Lockhart CHFM, CEM</b>          National Facilities Services          Kaiser Permanente          1600 Eureka Road          Roseville, CA 95661  <b>(916) 784-5280; tie-line (8-514)</b>  <a href="mailto:Dave.Lockhart@kp.org">Dave.Lockhart@kp.org</a></p> <ul style="list-style-type: none"> <li>• Energy Conservation and Management Committee</li> </ul>
<p><b>Kelly Martinez</b>          Co-founder          Hallsta, Inc.          PO Box 801238          Santa Clarita, CA 91381  <b>(818) 400-0954</b>  <a href="mailto:kelly@hallstainc.com">kelly@hallstainc.com</a></p> <ul style="list-style-type: none"> <li>• Codes and Processes Committee</li> <li>• Education and Outreach Committee</li> <li>• Offsite Fabrication/Preassembled Components Webinar Subcommittee</li> </ul>	<p><b>Bruce A. Rainey, MHA</b>          Vice President, Healthcare          Global Solutions Director, Health Advisory          Jacobs  <b>(760) 212-2438 (cell)</b></p> <ul style="list-style-type: none"> <li>• Education and Outreach Committee</li> </ul>

## 2024 CONSULTING COMMITTEE MEMBERS

<p><b>Tony Shakal</b>          California Geological Survey  <a href="mailto:Tshakal@pacbell.net">Tshakal@pacbell.net</a>  <ul style="list-style-type: none"> <li>• Instrumentation Committee</li> </ul> </p>	<p><b>Belinda Young</b>          Principal          Hellmuth, Obata &amp; Kassabaum, Inc.          1 Bush Street, Ste 200          San Francisco CA 94104  <b>(415) 356-8741</b>  <a href="mailto:belinda.young@hok.com">belinda.young@hok.com</a>  <ul style="list-style-type: none"> <li>• Codes and Processes Committee</li> <li>• Education and Outreach Committee</li> <li>• Technology and Research Committee</li> </ul> </p>
<p><b>Bill Zellmer, AIA, CASp</b>          Program Manager—Physical Access          Compliance and Regulatory Affairs          Sutter Health          2200 River Plaza          Sacramento, CA 95833  <b>(916) 216-3491 (cell)</b>  <a href="mailto:Zellmeb@sutterhealth.org">Zellmeb@sutterhealth.org</a>  <ul style="list-style-type: none"> <li>• Education and Outreach Committee</li> </ul> </p>	