

Hospital Building Safety Board

Full Board Meeting
December 5 – 6, 2023



***** SPECIAL NOTICE *****

This meeting will be held in-person at the Department of Health Care Access and Information (HCAI) office in Los Angeles, 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.

This page left intentionally blank.



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



***** SPECIAL NOTICE *****

This meeting will be held in-person at the location noted below, 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.

NOTICE OF PUBLIC MEETING

HOSPITAL BUILDING SAFETY BOARD

Full Board Meeting

APPOINTED MEMBERS

Louise Belair, Chair
 Scott Jackson, Vice Chair
 Cody Bartley
 David Bliss
 Bruce Clark
 Michael L. Davis
 Gary Dunger
 Teresa Endres
 Michael Foulkes
 Sharon Goei
 John Griffiths
 Michele Lampshire
 Marshall Lew
 Scott Mackey
 Jim O. Malley
 Farzad Naeim

DIRECTOR-APPOINTED EX-OFFICIO MEMBERS

Bert Hurlbut
 Michael O'Connor

Date:

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

****Please note late start time****

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

****Please note early start time****

Location:

Department of Health Care Access
 and Information
 355 South Grand Avenue, Suite 2000
 Los Angeles, CA 90071

Teleconference Meeting Access:

[Day 1- HBSB Teams Full Board Meeting](#)

[Day 2- HBSB Teams Full Board Meeting](#)

EX-OFFICIO MEMBERS

Elizabeth Landsberg
 HCAI Director

Daniel Berlant (Acting)
 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, M.D., Dr. P.H.
 Dept. of Public Health Director
 Nathaniel Gilmore (Delegate)

Chris Tokas
 Statewide Hospital Planning and
 Development,
 HCAI
 Deputy Director

EXECUTIVE DIRECTOR

Veronica Yuke (Acting)

For more detailed instructions on joining or attending the meeting, see pages 5 – 6.

AGENDA

Item	Subject	Facilitator
1	Call to Order and Welcome	Louise Belair, Board Chair (or designee)

Item	Subject	Facilitator	Pg
2	Roll Call and Meeting Advisories/Expectations <ul style="list-style-type: none"> • Determination of Quorum • Conduct of Meeting 	Veronica Yuke, Acting HBSB Executive Director (or designee)	
3	Nomination and election to fill the unexpired Vice-Chair vacancy <ul style="list-style-type: none"> • Nominations from the floor • Conduct election • Discussion and public input 	Louise Belair, Board Chair (or designee)	
4	Department of Health Care Access and Information (HCAI) Update <ul style="list-style-type: none"> • Swearing-in Ceremony for new HBSB members: <ul style="list-style-type: none"> ○ Janice Cheung, Fire/Life Safety Representative ○ Martin Hudson, Geotechnical Engineer Representative • Recognition of outgoing HBSB members: <ul style="list-style-type: none"> ○ Bruce Clark, Engineering Geologist Representative ○ Scott Jackson, Fire/Life Safety Representative ○ Michele Lampshire, Public Member Representative ○ Marshall Lew, Geotechnical Engineer Representative • HCAI Update • Discussion and public input 	Scott Christman, HCAI Chief Deputy Director (or designee)	7
5	Overview and approval of the August 17, 2023, Full Board draft Meeting Report/Minutes <ul style="list-style-type: none"> • Discussion and public input 	Louise Belair, Board Chair (or designee)	9
6	Energy Conservation and Management Committee <ul style="list-style-type: none"> • Overview and approval of the October 25, 2023, draft Meeting Report/Minutes • Discussion and public input 	John Griffiths, Committee Vice-Chair (or designee)	25
7	Education and Outreach Committee <ul style="list-style-type: none"> • Overview and approval of the following draft Meeting Report/Minutes: <ul style="list-style-type: none"> ○ May 24, 2023 ○ July 26, 2023 ○ August 30, 2023 ○ September 27, 2023 ○ November 1, 2023 • Discussion and public input 	Scott Mackey, Committee Chair (or designee)	33 41 49 57 71

Item	Subject	Facilitator	Pg
8	Codes and Processes Committee <ul style="list-style-type: none"> • Overview and approval of the following draft Meeting Report/Minutes: <ul style="list-style-type: none"> ○ August 14, 2023 ○ October 17, 2023 • Discussion and public input 	Michael O'Connor, Committee Chair (or designee)	77 83
9	Instrumentation Committee <ul style="list-style-type: none"> • Overview and approval of the October 26, 2023, draft Meeting Report/Minutes • Discussion and public input 	Jim Malley, Committee Vice-Chair (or designee)	89
10	Structural and Nonstructural Regulations Committee <ul style="list-style-type: none"> • Overview and approval of the November 7, 2023, draft Meeting Report/Minutes • Discussion and public input 	Jim Malley, Committee Chair (or designee)	97
11	Ad hoc Board Procedures Committee <ul style="list-style-type: none"> • Overview of the December 5, 2023, meeting <ul style="list-style-type: none"> ○ Review and approve changes to the Board Policies and Procedures • Discussion and public input 	Michael Foulkes, Committee Chair (or designee)	103
12	Administration of process for filling Board Vice-Chair vacancy <ul style="list-style-type: none"> • The Board will administer the new process for filling Board Vice-Chair vacancy, as presented by the Ad hoc Board Procedures Committee • Discussion and public input 	Louise Belair, Board Chair (or designee)	
13	Review and approve 2024 Committee Assignments, Goals and Meeting Calendar <ul style="list-style-type: none"> • Discussion and public input 	Louise Belair, Board Chair (or designee)	115
14	Office of Statewide Hospital Planning and Development (OSHPD) Update <ul style="list-style-type: none"> • Workload and performance • Personnel changes • Discussion and public input 	Chris Tokas, HCAI OSHPD Deputy Director (or designee)	

Item	Subject	Facilitator
15	<p>Inspection Services Unit (ISU) Update</p> <ul style="list-style-type: none"> • At the end of 2022, ISU learned that many certified hospital inspectors were not actively working on healthcare projects. One of ISU goals for 2023 was to better understand the reasons for this condition and determine some possible options to increase the supply of Inspectors of Record (IOR) in the industry. <ul style="list-style-type: none"> ○ Review findings of the ISU research regarding the utilization of IORs in 2023 • Update on other ISU accomplishments year-to-date • Discussion and public input 	<p>Joe LaBrie, ISU Supervisor</p> <p>Bob Lyons and James Pan, ISU (or designees)</p>
16	<p>Building Standards Unit (BSU) Update</p> <ul style="list-style-type: none"> • Update on BSU accomplishments year-to-date • Discussion and public input 	<p>Mia Marvelli, BSU Supervisor (or designee)</p>
17	<p>Fire Prevention Unit (FPU) Update</p> <ul style="list-style-type: none"> • Update on FPU accomplishments year-to-date • Discussion and public input 	<p>Nanci Timmins, Chief Fire Life Safety Officer (or designee)</p>
18	<p>Structural Services Section Update</p> <ul style="list-style-type: none"> • Update on Structural Services Section accomplishments year-to-date • Discussion and public input 	<p>Roy Lobo, Principal Structural Engineer (or designee)</p>
19	<p>Comments from the Public/Board Members on issues not on this agenda</p> <p>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.</p>	<p>Louise Belair, Board Chair (or designee)</p>

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. A 30- to 90-minute lunch may be taken some time during the day.

For further information about this meeting, please contact HBSB Staff, Evett Torres or Marcus Palmer, at (916) 440-8300, HBSBSupportStaff@hcai.ca.gov, or by sending a letter to 2020 West El Camino Avenue, Suite 800, Sacramento, CA 95833. This agenda and other notices about meetings are posted on the Internet at <https://hcai.ca.gov/construction-finance/hbsb/>.

Individuals with disabilities may request an accommodation or modification to observe or participate in the meeting by contacting HBSB Staff as stated above. Providing your request at least five (5) business days before the meeting will help ensure availability of the requested accommodation.

There are no future Full Board meetings scheduled.

Microsoft Teams Instructions

Board members are required to attend the meeting in person. Members of the public, including HCAI staff, may join the meeting and provide public comment virtually through Microsoft Teams.

Microsoft Teams:

For best results, please use Google Chrome or Microsoft Edge browsers to join 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).

DAY ONE—December 5, 2023

Join on your computer or mobile app

- [Click here to join the meeting](#)
- Or copy and paste the following link into your browser:
https://teams.microsoft.com/l/meetup-join/19%3ameeting_OWEwMWVvKnmYtMzM5Mi00MTA3LWIzMjltOTY2OWUxMDZjNjYz%40thread.v2/0?context=%7b%22id%22%3a%2228891a93-888f-489f-9930-e78b8f733ca6%22%2c%22oid%22%3a%224afdc7d5-a51c-4637-9e27-755fa3a30732%22%7d
- Meeting ID: 297 598 508 112
- Passcode: NmJG46

Or call in (audio only)

- +1 (916) 535-0978 United States, Sacramento
- Enter Phone Conference ID: 586 355 929#

Or join with a video conferencing device

- 576732194@t.plcm.vc
- Video Conference ID: 115 121 407 9
- [Alternate VTC instructions](#)

DAY TWO—December 6, 2023

Join on your computer or mobile app

- [Click here to join the meeting](#)
- Or copy and paste the following link into your browser:
https://teams.microsoft.com/l/meetup-join/19%3ameeting_YTRmYTAyMWYtYjJyY00OWNkLWJiMDctMjU0ODhjZWVjZjcx%40thread.v2/0?context=%7b%22id%22%3a%2228891a93-888f-489f-9930-e78b8f733ca6%22%2c%22oid%22%3a%2224afdc7d5-a51c-4637-9e27-755fa3a30732%22%7d
- Meeting ID: 239 606 794 937
- Passcode: xQXRPU

Or call in (audio only)

- +1 (916) 535-0978 United States, Sacramento
- Enter Conference ID: 740 313 837#

Or join with a video conferencing device

- 576732194@t.plcm.vc
- Video Conference ID: 114 755 722 2
- [Alternate VTC instructions](#)

Los Angeles Office:

You may take public transportation via:

- The "B" or "D" Metro Lines to Pershing Square
- The "A" or "E" Metro Lines to Grand Avenue Arts/Bunker Hill
- The B Dash bus to Financial District (on Alameda St)
- The Commuter bus at Patsaouras Plaza (Stop# 3)

Public parking locations in the area:

- 330 S. Hope Street - Wells Fargo Center
 - On Site; \$4.40 for each 10 minutes/\$44 for 10 hours
- 465 S. Flower Street - Westin Bonaventure Garage
 - .12 Miles; \$20
- 530 S. Grand Avenue - Pac Mutual Building Garage
 - .15 Miles; \$25
- 601 W. 5th Street - Cal Edison Building
 - .18 Miles; \$18
- 625-631 S. Olive Street - Crown Plaza Garage
 - .23 Miles; \$10

HCAI Update

This page left intentionally blank.

New HBSB Members

Fire/Life Safety Representative:

Janice Cheung, PE, CSP, is a licensed fire protection engineer with over 16 years of experience in fire and life safety code compliance, and Environment, Health and Safety. Since 2020, she has held the position of Deputy Campus Fire Marshal at the University of California, San Francisco, leading the responsibility for hospital building design, construction, and inspections at the institution. Previously, Ms. Cheung worked as a Fire Protection Engineer at San Francisco City Fire Department, as well as the Deputy Fire Marshal for Lawrence Berkeley National Laboratory.

Ms. Cheung obtained her Bachelor of Science degree in mechanical engineering from the University of California, Davis, with a double minor in both Communications and Chinese.

Geotechnical Engineer Representative:

Martin B. Hudson, PhD, PE, GE, is a licensed civil and geotechnical engineer with over 29 years of industry experience covering a variety of building types, sizes, and market sectors. He is a leader and highly esteemed expert in the field of geotechnical engineering who has dedicated his career to advancing seismic safety.

Dr. Hudson has worked on geotechnical services for a number of new hospital building projects in California, including the Ronald Reagan Medical Center at University of California, Los Angeles (UCLA); Community Memorial Hospital in Ventura, the first hospital approved by HCAI for deep soil mixing at a liquefiable site; and Glendale Memorial Hospital, the first hospital to have permanent soil nail retaining. He also provided guidance on instrumentation for a number of these projects, including managing the strong motion instrumentation installation (including down-hole accelerometer installation) for Community Memorial Hospital.

Dr. Hudson is an Honorary Member of the Structural Engineers Association of Southern California (SEAOSC) and serves on the SEAOSC Seismology Committee. He has served on the Board of SEAOSC and on the Board of the American Society of Civil Engineers Geo-Institute Los Angeles Chapter. Dr. Hudson also teaches courses on foundation engineering at the UCLA Henry Samueli School of Engineering and Applied Science and has dozens of publications on seismic and geotechnical engineering topics.


Dr. Hudson obtained his Bachelor and Master of Science degrees from the University of California, Los Angeles, and his Doctor of Philosophy degree in civil engineering from the University of California, Davis.

This page left intentionally blank.

Full Board

Draft Meeting Report/Minutes

August 17, 2023



This page left intentionally blank.



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



**HOSPITAL BUILDING SAFETY BOARD
Full Board Meeting**

Thursday, August 17, 2023
10:00 a.m. – 4:00 p.m.

Department of Health Care Access and Information
2020 W. El Camino Avenue, Suite 900
Sacramento, CA 95833

Appointed Members Present

Scott Jackson, Vice Chair
Cody Bartley
David Bliss
Bruce Clark
Michael Davis
Gary Dunger
Teresa Endres
Michael Foulkes
Sharon Goei
Marshall Lew
Scott Mackey
Jim Malley

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

Bert Hurlbut
Michael O'Connor

Ex-Officio Members Present

Elizabeth Landsberg, HCAI, Director
Wendy Collins, State Fire Marshal, Delegate
Jennifer Thornburg, State Geologist, Delegate
Kevin Day, Building Standards Commission,
Acting Executive Director
Nathaniel Gilmore, Department of Public Health,
Delegate
Chris Tokas, OSHPD, HCAI, Deputy Director

HCAI Staff Present

Arash Altoontash
Richard Tannahill
Joe LaBrie
Mia Marvelli
Ali Sumer
Nanci Timmins
John Gray

HBSB Staff Present

Veronica Yuke, Acting Executive Director
Marcus Palmer
Evet Torres

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

2 Scott Jackson, Vice Chair, called the meeting to order on August 17, 2023, at 10:00
3 a.m., and Veronica Yuke, Acting HBSB Executive Director called roll.
4

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

6 Nine 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. Department of Health Care Access and Information (HCAI)**

12 **Presenter:** Elizabeth Landsberg, HCAI Director
13

14 Ms. Landsberg swore in new HBSB members: Michael Davis, Inspector of Record
15 Representative; Teresa Endres, Architect Representative; and Sharon Goei, Local
16 Building Official Representative. She also recognized outgoing HBSB members
17 Deepak Dandekar and David Khorram and thanked them for their excellent work.
18

19 Ms. Landsberg gave an update on bills and budget proposals stating that HCAI had
20 distributed funds for the Healthcare Workforce department and had formed the Racial
21 Equity Team.
22

23 Ms. Landsberg said that HCAI was working together with California Health Facilities
24 Financing Authority (CHFFA) to administer the Distressed Hospital Loan Program.
25

26 Ms. Landsberg reported that HCAI was overseeing CalRx Biosimilar Insulin initiative.
27

28 **Discussion and Input**

- 29
 - None
30

31 **Informational and Action item**

- 32
 - None
33

34 **4. Overview and approval of the April 20, 2023, Full Board draft Meeting and**
35 **Leadership Training for Board Members draft Meeting Report/Minutes**

36 **Presenter:** Scott Jackson, Vice-chair
37

38 Mr. Jackson gave a review of the April 20, 2023, Full Board meeting. The topics
39 discussed were: -

- 40
 - **Item 1:** Welcome and Introductions

- 1 • **Item 2:** Roll Call and Meeting Advisories/Expectations
- 2 • **Item 3:** HCAI Update – Ms. Landsberg gave a report on hospitals facing
- 3 challenges, especially small and independent non-profits. She also explained
- 4 AB 412, new legislation to create loan programs for distressed hospitals.
- 5 Ms. Landsberg recognized outgoing HBSB member Bruce Rainey. She gave
- 6 an update on HCAI entering contract with Civica RX Pharmaceuticals for
- 7 three biosimilar insulin products at a transparent and affordable price, the
- 8 Office of Healthcare Affordability, and a budget review.
- 9 • **Item 4:** Bagley-Keen Open Meeting Act Requirement - Louise Belair, Board
- 10 Chair. Mr. Gray talked about:
- 11 ○ The requirements for in-person meeting governed by Code 11123
- 12 prior to the pandemic.
- 13 ○ State Bill 189, establishing the government code 11133.
- 14 ○ Requirement of 11133 for board members to attend in person in
- 15 Sacramento and Los Angeles.
- 16 ○ State Bill 544.
- 17 • **Item 5:** Overview and Approval of the December 7 and 8, 2022, Full Board
- 18 draft Meeting report/Minutes - Louise Belair, Board Chair
- 19 • **Item 6:** Code and Processes Committee – Michael O’Connor, Committee
- 20 Chair
- 21 ○ Overview and approval of the October 13, 2022, draft meeting
- 22 report/minutes
- 23 ▪ 2022 intervening code adaptation update.
- 24 ▪ Committee goals for 2023.
- 25 • **Item 7:** Instrumentation Committee – Marshall Lew, Committee Chair
- 26 ○ Overview and approval of the October 27, 2022, draft meeting reports
- 27 ▪ Annual update on HCAI instrumentation and collaboration with
- 28 California Stored Strong Motion Instrumentation program
- 29 (CSIMP).
- 30 ▪ Discussion and editing of white paper draft – “The Benefits of
- 31 Strong Motion in Hospital Facilities.”
- 32 • **Item 8:** Structural and Nonstructural Regulations Committee – Jim Malley,
- 33 Committee Chair
- 34 ○ Overview and approval of the November 7, 2022, draft meeting
- 35 reports/minutes
- 36 ▪ Discussion of Policy Intent Notice (PIN) for AB1882 Hospital
- 37 Seismic Safety, reporting, and identification.

- Proposed amendments to the 2022 California Administrative Code, Title 24, Part 1, Chapter 6 on Small and Rural Hospital Relief Programs.
 - 2023 Committee goals.
- **Item 9:** Ad hoc Board Procedures Committee – Michael Foulkes, Committee Chair
 - Overview and approval of the November 18th, 2022, draft meeting reports/minutes
 - Discussion about joint committee meetings.
 - Proposed HBSB leadership training for chairs and vice chairs.
 - The next step - monitor SB 544 proposed legislation that would permanently allow remote meetings.
- **Item 10:** Education and Outreach Committee – Scott Mackey, Committee Chair
 - Overview and approval of the January 18 and March 8, 2023, meeting report/minutes
 - Webinar topics
 - Discussion and planning of 2023 seminar.
 - Continue to establish curriculum and calendar dates for 2023.
- **Item 11:** OSHPD Update – Chris Tokas, OSHPD Deputy Director and Ali Summer, OSHPD Seismic Compliance Unit Supervisor
 - Review of mission statement and comment on the values and achievements of the organization.
 - Importance of resilience.
 - HCAI leadership in earthquake safety.
 - Reports on the reconnaissance trip to Turkey after the devastating earthquake on February 6, 2023.
- **Item 12:** Healthcare Microgrids updates – Jamie Schnick, HCAI Senior Electrical Engineer
 - Microgrids as Emergency Power Supply (EPS) for hospitals and Skilled Nursing Facilities (SNFs) added to the 2022 Intervening Code Cycles to follow the national codes.
 - CMS categorical waiver of healthcare microgrid systems to be used as EPS for hospitals and SNFs.
 - Review of proposed language to be added to code 517.30 Sources of Power for Hospitals and SNFs.
 - Discussion for AB2511 implementation for microgrids.

- 1 • **Item 13:** Leadership and Training for Board Members – Louise Belair, Board
2 Chair, and Scott Jackson, Vice-chair.
 - 3 ○ Review purpose of HBSB, roles and responsibilities of different roles,
4 meeting protocols and behaviors.
 - 5 ○ The purpose of the Bagley-Keen Open Meeting Act Requirement.
 - 6 ○ Review of Robert’s Rules of Order as it applies to HBSB meetings by
7 Carl Scheuerman.
 - 8 ○ Facilities (CAHF).
 - 9 ○ Mention of upcoming webinars.
- 10 • **Item 14:** There were no comments from the public/board members not on the
11 agenda.
- 12 • **Item 15:** Louise Belair, Board Chair, adjourned the meeting on April 20, 2023,
13 at approximately 3:45pm.

14 Overview of motions

- 15 ○ Motion 1: The board unanimously voted to approve the December 7 –
16 8, 2022, Full Board draft meeting report/minutes.
- 17 ○ Motion 2: The board unanimously voted to approve the October 13,
18 2022, Codes and Processes Committee draft meeting report/minutes
19 including the proposed Building Standard Code (BSC) revisions for the
20 2022 Intervening codes.
- 21 ○ Motion 3: The board unanimously voted to approve the October 27,
22 2022; Instrumentation Committee draft meeting report/minutes as
23 presented.
- 24 ○ Motion 4: The board unanimously voted to approve the November 7,
25 2022, Structural and Nonstructural Regulations Committee draft
26 meeting report/minutes with corrections.
- 27 ○ Motion 5: The board unanimously voted to approve the November 18,
28 2022, Ad HOC Board and Procedures committee draft meeting
29 report/minutes.
- 30 ○ Motion 6: The board unanimously voted to approve the Jan 18, 2023,
31 and March 8, 2023, Education and Outreach Committee draft meeting
32 report/minutes as presented.

33

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

35 The board unanimously voted to approve the April 20, 2023, Full Board Meeting and
36 Leadership Training for Board Members draft meeting report/minutes.

37

1 **Information and Action item**

- 2 • None
3

4 **5. Energy Conservation and Management Committee**

5 **Presenter:** Scott Jackson, Committee Chair

6 Mr. Jackson gave an overview and approval of the March 16, 2023, draft meeting
7 report/minutes.

8 Mr. Jackson stated that in the March 16, 2023, meeting, there were presentations on
9 these topics:

- 10 ○ The decarbonation of the built hospital environment.
11 ○ Using indoor air quality monitoring in hospital research spaces.
12 ○ Examining possibilities for monitoring airflow in OR spaces.
13 ○ Supply chain and climate impacts on healthcare design and construction.
14 ○ Research indoor air quality monitoring for UC universities.
15 ○ Impact of code changes such as AB1125 on SNFs.

16 Mr. Jackson reported that in 2023 and 2024, the Energy Conservation and Management
17 Committee would be pursuing topics in:

- 18 ○ Microgrid operations under the new implementation for SNFs.
19 ○ Practical applications in California medical facilities for indoor air quality
20 monitoring.
21 ○ Diverse application for emergency power and their carbon footprint
22 reductions.
23 ○ Committee goal setting for 2024.

24

25 **Discussion and Input**

- 26 • None.

27

28 **Information and Action item**

- 29 • None.

30

31 **MOTION: [Jackson/Lew]**

32 The board unanimously voted to approve the Energy Conservation and Management
33 Committee March 16, 2023, draft meeting report/minutes.

1 **6. Structural and Nonstructural Regulations Committee**

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

3
4 Mr. Malley gave an overview of the April 11, 2023, draft meeting report/minutes. The
5 topics discussed were:

- 6 ○ Discussion on the findings and lessons from the Turkey earthquake - the
7 purpose was to learn about the shaking and how it affected modern
8 engineered buildings and the ability of a large set of strong motion records.
- 9 ○ Updates to PIN 62 OSHPD Preapproval of Manufacturer’s Certification
10 (OPM) – the update was to reference the 2022 CBC which references ASCE
11 7-16 instead of ASCE 7-10.
- 12 ○ Testing criteria for allowable load rating of vibration isolators to determine the
13 best rating system for HCAI since ASCE 7 does not provide guidance for
14 nonstructural elements on these isolators.
- 15 ○ Committee goals for 2023:
 - 16 ■ Seismic compliance issues related to NPC -3, NPC- 4D, and NPC -5.
 - 17 ■ Review of obsolete code amendments.
 - 18 ■ Develop and implement procedures and enforceable building
19 standards to ensure safe and sustainable healthcare facilities.
 - 20 ■ New products, materials, and methods to benefit the public by early
21 adoption rather than to wait for incorporation into the building codes.
 - 22 ■ Increase IOR (Inspector of Record) competency.
 - 23 ■ Implementation of the small and rural hospital relief program,
24 including technical assistance and raising awareness.
 - 25 ■ Implementation of AB882 requirements and reaching out to
26 stakeholders via seminars and webinars to raise awareness.
 - 27 ■ Training and outreach to the industry on code changes and tips for
28 working with HCAI, with training meetings highly recommended.

29 Mr. Malley stated that the following motions were made in the April 11, 2023, meeting:

- 30 ○ Motion to support adopting the proposed changes to PIN 62.
- 31 ○ Motion to support moving forward with testing the market with the revised
32 criteria for allowable rating about ration isolators.

33 All the motions were unanimously approved by the committee members.

34
35 **Discussion and input**

1 Mr. Mackey asked why revisiting NPC 5 requirements was removed from the 2023
2 goals. Mr. Sumer stated that NPC 5 requirements were not anticipated and thus
3 removed from the agenda. The A5 guide had already been published.

4
5 **Information and Action item**

- 6 • None.

7
8 **MOTION: [Malley/ Foulkes]**

9 The board unanimously voted to approve the Structural and Nonstructural Regulations
10 Committee April 11, 2023, draft meeting/report.

11
12 **7. Codes and Processes Committee**

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

14 Mr. O'Connor reported on the May 9, 2023, Code and Processes Committee meetings.
15 The topics discussed were:

- 16 ○ California Building Standards Code Revision Cycle for 2022 intervening code
17 cycle.
- 18 ■ Mia Marvelli was introduced as the new Building Standards Unit
19 Supervisor.
- 20 ■ 2024 California Electrical Code Cycle, Part 3, based on the 2023
21 National Electrical Code. The primarily changes that were proposed
22 related to model code changes in the 2023 National Electrical Code
23 were:
- 24 • Article 100 definitions.
- 25 • Definitions added to article 100.
- 26 • Article 517 introduction to healthcare microgrid accepted as
27 source of emergency power.
- 28 • Carry forward 2023 National Electrical Code changes.
- 29 • HCAI revision to match already approved California
30 amendments.
- 31 • Remove California amendments for hospital microgrids.
- 32 ○ Update on electronic Test, Inspection, and Observation (eTIO) Development -
33 written concept summary that suggested how the committee had prepared a
34 document outlining the key details and procedures for conducting the eTIO.
- 35 ○ Standard Detail Update – discussion of the development process for HCAI
36 Preapproved Details (OPD) and the potential needs for wood frame details.

1 Mr. O'Connor noted a correction on page 3 of the meeting report that clarified proposals
2 to remove California amendments for hospital microgrids since they were included via
3 model code.

4
5 **Discussion and input**

- 6 • None.

7
8 **Information and Action item**

- 9 • None.

10
11 **MOTION: [O'Connor/Hurlbut]**

12 The board unanimously voted to approve the Codes and Processes Committee May
13 9th, 2023, draft meeting report/minutes with correction.

14
15 **8. Offsite Fabrication/Preassembled Components Webinar Subcommittee of the**
16 **Education and Outreach Committee**

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

18 Mr. Bartley gave a summary of the June 21, 2023, subcommittee meeting:

- 19 ○ Discussed media to be used and settled on PowerPoint presentations.
20 ○ The intent of the webinar was to create awareness around the topic of pre-
21 fabrication and off-site fabrication.
22 ○ Discussed the presentation order and projects in case studies.

23 Mr. Bartley gave a summary of the June 27, 2023, subcommittee meeting:

- 24 ○ Reviewing slide content collected at the June 21, 2023, subcommittee
25 meeting.
26 ○ Discussed specific PCS (Prefabricated Components and Systems) examples
27 and had public comment and request for additional examples to be included.
28 ○ Additional public comment indicated a need for additional information on the
29 approved process, time, and cost.

30
31 Mr. Bartley gave an overview of the Off-site fabrication/Pre-assembled Components
32 agenda.

- 33 ○ Background
34 ○ Definitions

- 1 ○ PPCS (Preapprove Prefabricated Components and Systems) types and
- 2 systems
- 3 ○ Why off-site fabrication is being discussed
- 4 ○ Modular planning approach
- 5 ○ Goals of PPS
- 6 ○ The “How” and Timing
- 7 ○ PPCS approval process
- 8 ○ Offsite project specific prefabrication
- 9 ○ Inspection process
- 10 ○ Examples

11

12 **Discussion and input**

- 13 • None.

14

15 **Information and Action item**

- 16 • None.

17

18 **MOTION: [Bartley/Davis]**

19 The board unanimously voted to approve the June 21 and June 27, 2023, Offsite
20 Fabrication/Preassembled Components Webinar Subcommittee of the Education and
21 Outreach Committee draft report/minutes.

22

23 **9. Office of Statewide Hospital Planning and Development (OSHPD) Update**

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

25 Mr. Tokas stated that the purpose of HCAI strategic planning was to:

- 26 ○ Reflect the values of HCAI.
- 27 ○ Inspire change and revision in product/services and target markets.
- 28 ○ Clearly define the criteria for achieving success.
- 29 ○ Assist in daily decision making.

30 Mr. Tokas mentioned the HCAI core values and guiding principles, which are service,
31 equity, innovation, and professionalism.

32 He communicated that each HCAI office implemented an operational plan to achieve
33 these goals:

- 1 ○ Deliver valuable service.
- 2 ○ Integrate and promote equity throughout HCAI.
- 3 ○ Promote and inclusive HCAI community of professional learning and growth.
- 4 ○ Maximize operational efficiency and effectiveness through innovation.
- 5 ○ Optimize fiscal stewardship and transparency.

6 Mr. Tokas gave an update on HCAI review and field performance stating that AB2511
7 guide had been published and FREER manual had been updated.

8

9 NPC 5 water rationing plan guide shall be based on:

- 10 ○ Water usage under normal operating conditions
- 11 ○ Sources of emergency water supply
- 12 ○ Identification of water use in buildings
- 13 ○ Water replenishment/ tankers trucks
- 14 ○ Temperature
- 15 ○ Impacted services in the building

16

17 **Discussion and input**

- 18 • None.

19

20 **Information and Action item**

- 21 • None.

22

23 **10. Inspection Service Unit**

24 **Presenter:** Joe LaBrie, Inspection Services Unit Supervisor

25

26 Mr. LaBrie gave an overview of the progress of the goals of the Inspection Service Unit:

- 27 ○ Field operations manual updates –update sent out on August 15, 2023, and
28 the annual update was completed.
- 29 ○ Administration of the HICE exams – exams rewritten and scheduled for
30 October 2023.
- 31 ○ Administration of IOR revert training and exams – scheduled for September
32 2023.
- 33 ○ CO training – 8 of 12 training session completed.
- 34 ○ IOR mobilization survey to IORs to be sent out in July 2023.

- 1 ○ Field brief advice – weekly FBA to be completed by the end of August 2023.
- 2 ○ Tip of the day – ongoing distribution, two tips per week and posted on HCAI
- 3 website.
- 4 ○ eTIO – consultant working with Inspection Service Unit for proof of concept.
- 5 ○ HBSB seminar – preparation of presentation, Tips manual updates ongoing.
- 6 ○ Safety training – Los Angeles completed on June 14, 2023, and Sacramento
- 7 to be completed on September 13, 2023.
- 8 ○ Enhanced monitoring and training – ongoing IOR meetings.

9

10 **Discussion and input**

- 11 • None.

12

13 **Information and Action item**

- 14 • None.

15

16 **11. Building and Standard Units Update**

17 **Presenter:** Mia Marvelli, Building Standards Unit Supervisor

18

19 **Discussion and input**

20 Ms. Marvelli gave an update on the Building Standard Unit stating that the unit was
21 launching into the 2024 Triennial Code Adoption Cycle.

22 Ms. Marvelli announced a coordination council meeting to be held at the end of
23 September 2023. The meeting aims to encourage collaboration between leaders of
24 different state agencies on code changes.

25 She reported an ongoing call for applications for the code advisory committee to review
26 all proposed code changes for technical merit.

27 Ms. Marvelli stated that the California Building Standards Commission (CBSC) is
28 seeking representatives for acute care hospitals, skilled nursing facilities (SNFs), and
29 primary care or specialized clinics.

30

31 HCAI/ California Department of Public Health (CDPH) coordination:

- 32 ○ Title 22 rewrite – ongoing.
- 33 ○ Water rationing plans.
- 34 ○ Methods of procedures guidance.

- 1 ○ Process for survey discovery of unauthorized projects.
- 2 ○ Functional program rewrite.
- 3 ○ Rewrite on functional program/guide – ongoing.
- 4 ○ Covid reset coordination/program flex review and other emergency/disaster
- 5 operations.
- 6
- 7 HCAI/ California Administrative Code (CAC) coordination
- 8 ○ Quarterly meetings - ongoing.
- 9 ○ OSHPD 3 clinic webinar – done.
- 10 ○ Clinic standards as compared to outpatient services of a hospital being reviewed.
- 11 ○ AB1612 coordination.
- 12
- 13 HCAI/ AIA coordination.
- 14 ○ AIA Central Valley Chapter – monthly HCAI share.
- 15 ○ AIA Pasadena Chapter.
- 16 ○ AIA Orange County Chapter.
- 17

18 Ms. Marvelli mentioned the upcoming OSHPD webinars. The OSHPD Tips from Experts
19 seminar scheduled for October 5, 2023, in Newark, and October 10, 2023, in Irvine.

20 Dr. Bliss asked if the CBSC appointments were for design professionals or specific
21 people to fill the roles. Ms. Marvelli answered that the appointees needed to be
22 knowledgeable in the said areas.

23

24 **Information and Action item**

- 25 • None.

26 **12. Structural Service Section Update**

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

28

29 **Discussion and input**

30 Mr. Sumer reported the number of buildings in each structural performance category: 41
31 SPC 1, 669 SPC 2, 375 SPC 3, and 787 SPC 4.

32 He highlighted that AB2190 focused on SPC 1 buildings.

1 Mr. Sumer mentioned that the AB2190 building had 93 buildings, 63 were finished, and
2 30 still under construction.

3 He stated that there was an additional NPC 4D building operational plan tab on the
4 Facility Detail website page, which can be downloaded to view the building operational
5 plan.

6 Mr. Sumer reported on AB1882 public notices and annual status updates.

- 7 ○ Proposed seismic regulations 2022 Intervening Code Cycle.
- 8 ○ PIN 75 – published.
- 9 ○ Application portal opened.
- 10 ○ Three facilities wide application for service reporting
- 11 ○ 29 building for signage application.

12

13 Upcoming Seismic Compliance Unit webinars.

- 14 ○ NPC 5 Water training plan – August 22, 2023.
- 15 ○ AB1882 Hospital Public Notices – August 31, 2023.
- 16 ○ Small and Rural Hospital Relief Program – September 2023.

17

18 Mr. Scheuerman reported that 29 hospitals had applied for admission to the Small and
19 Rural Hospital Relief Program. Of those, 20 had their revised compliance plans
20 approved, while nine applications were still pending.

21

22 **Information and Action item**

- 23 ● None.

24

25

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

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

28 Future Full Board meeting scheduled on December 6 – 7, 2023.

29

30 **Discussion and input**

31 Dr. Bliss asked if the Fire and Life Safety Department had feedback from Maui
32 regarding the recent wildfire experience. Mr. Schnick answered that the National Fire
33 Protection department had provided input on their website and would investigate and
34 share findings on the Maui wildfire.

1 **Information and Action item**

- 2 • None.

3

4 **14. Adjournment**


5 Mr. O'Connor adjourned the meeting on August 8, 2023, at approximately 2:55 p.m.

This page left intentionally blank.

Energy Conservation and Management Committee

Draft Meeting Report/Minutes

October 25, 2023



This page left intentionally blank.



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



**HOSPITAL BUILDING SAFETY BOARD
Energy Conservation and Management Committee**

**Wednesday, October 25, 2023
10:00 a.m. – 4:00 p.m.**

Teleconference Meeting Access:

[HBSB Teams ECM Committee](#)

Access Code: 604-967-33

Committee Members Present

Scott Jackson, Committee Chair
John Griffiths, Vice Chair
Louise Belair
Michael Foulkes

HCAI Staff Present

Richard Tannahill
Jamie Schnick
John Gray

Consulting Members Present

Eric Johnson
David Lockhart

HBSB Staff Present

Veronica Yuke, Acting Executive Director
Marcus Palmer
Evet Torres

1 **1. Call to Order and Welcome**

2 Scott Jackson, Committee Chair, called the meeting to order on October 25, 2023, at
3 10:00 a.m., and HBSB Acting Executive Director, Veronica Yuke, called roll.

4

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

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

8

1 Ms. Yuke read the meeting rules and procedures.

2

3 **3. Microgrids Update**

4 **Presenter:** Jamie Schnick, HCAI

5

6 **Discussion and Input**

7 Mr. Schnick updated that the Building Standards Unit (BSU) started reviewing Skilled
8 Nursing Facilities (SNF) assessment to evaluate and provide written documentation of
9 the existing conditions, identify areas of non-compliance, and put together a proposed
10 solution.

11 Mr. Schnick stated that there were 153 submitted assessment projects, 105 of these
12 resulted in non-compliance and the remaining 48 were pending.

13 He highlighted that the SNF assessment was done to evaluate existing conditions,
14 identify areas of non-compliance, and suggest potential solutions.

15 Mr. Schnick said that if the assessment identifies as non-compliance, specific areas like
16 insufficient resources or data are pinpointed, and guidance given to rectify these issues
17 for future assessments.

18 Mr. Schnick stated that if a facility lacked resources to support cooling equipment or
19 sufficient fuel for 96 hours, an assessment would be submitted, which, upon review and
20 agreement, would be marked as non-compliant.

21 He said that the dashboard was constantly shared with the California Department of
22 Public Health (CDPH) to display the number of facilities, their submission statuses, and
23 whether they are deemed compliant or non-compliant.

24 Mr. Schnick reported that several facilities use on-site green power generation such as
25 photovoltaics, batteries, fuel cells, and combined heat systems, however, these systems
26 shut off during power outages due to strict utility requirements, making on-site
27 resources inaccessible.

28 Mr. Schnick predicted that future projects would focus on reconfiguring these existing
29 assets and distribution systems into microgrid systems to enable facilities to function
30 independently and generate power during utility outages, enhancing resilience.

31 Mr. Schnick talked about a completed large-scale microgrid project at Kaiser San
32 Marcos, which ensured 100% backup for the entire site.

33 He disclosed that the project primarily involved a substantial fuel cell operating in
34 parallel with the normal system, promoting sustainability, resilience, and energy cost
35 savings.

1 Mr. Schnick said that seismic certification was a requirement in healthcare microgrids to
2 retain functioning generators during earthquakes rather than replacing them with
3 uncertain alternatives.

4 Mr. Schnick advocated the use of software simulations to ensure the microgrid
5 resources could endure various load profiles, emphasizing the necessity for
6 comprehensive commissioning during the incorporation of microgrids.

7 He announced an upcoming intervening code that would enable microgrids from July 1,
8 2024.

9 Mr. Schnick highlighted the introduction of a new HCAI CAN that would define the
10 reliability criteria for microgrids as emergency power sources, aiming to align with the
11 NFPA 70 and NFPA 90 language.

12 Mr. Schnick stated the intervening code cycle changes for the California Electrical
13 Code:

- 14 • 220.110 - Enhanced demand factors for receptacles in Patient Care Spaces.
- 15 • 517.1 - definitions related to AB 2511 requirements, microgrid controllers, and
16 allowances for microgrids as emergency power sources added.
- 17 • 517.30 - Microgrids as emergency power sources at hospitals requirements from
18 NFPA 99 6.10.
- 19 • 517.40 - encompass the regulations allowing microgrids for SNFs.
- 20 • 517.4 - derived from NFPA 99, to eliminate the use of the term normal and focus
21 on refining the code to accommodate and integrate new technologies.
- 22 • 517.30 & 517.41 -Multiple resources for entire site power and essential electrical
23 system.
- 24 • 517.30 & .40 – Address new emergency power source requirements.

25

26 Mr. Schnick reported future speaking engagements were scheduled on:

- 27 • CAHF – Onsite/Generac Webinar, November 9th.
- 28 • Healthcare Project Delivery Conference at San Diego, January 29-30, 2024.
- 29 • ASHE Project Delivery Conference Summit at San Diego, March 17-20, 2024.

30

31 Mr. Jackson highlighted the fire marshals concern about safety in handling battery
32 storage, emphasizing recent code adaptations requiring physical separation of lithium
33 batteries into their containment areas.

34 Mr. Jackson mentioned the reliance on designers for safe technology application and
35 underlined the need for fire marshals to expand their role beyond regulation to include

1 engineering and visionary thinking, ensuring code compliance and adapting to
2 technological advancements.

3 An interested party asked about the assessment approach in handling challenges with
4 power quality, site affordability, and integrating varied energy sources in compliance
5 with the electrical code. Mr. Schnick answered that the assessment process identified
6 current conditions and deficiencies and helped formulate a remediation plan for review.

7 An interested party asked if there was a plan to move away from Automatic Transfer
8 Switches (ATS) if microgrids were to power the entire facility. Mr. Schnick answered no,
9 because there was a distribution requirement and a cell generation requirement.

10 An interested party asked if there was a parallel side from a fire marshal point of view
11 on code changes and fuel sources. Mr. Schnick answered that fire marshals were
12 making sure the codes were considered.

13 Mr. Griffiths asked if there was a move to allow the use of a hybrid inverter that
14 combines batteries, solar power, and a generator, which allowed for seamless switching
15 between these power sources. Mr. Schnick answered that a hybrid solution for power
16 backup would be acceptable.

17 An interested party asked how projects were currently evaluated ensuring that energy
18 sources could handle abrupt load changes without compromising the microgrids
19 stability. Mr. Schnick answered that there was a code intended to incorporate these
20 requirements, thus ensuring the success of microgrid systems in the future.

21

22 **Informational and Action item**

- 23 • None

24

25 **4. Microgrid project at Kaiser Permanente San Marcos Medical Center**

26 **Presenter:** Duc Bui, Salas O'Brien

27

28 **Discussion and Input**

29 Mr. Bui briefed that Kaiser Permanente San Marcos Medical Center project had four
30 existing medical office buildings (MOB), a new hospital with 168 beds, and a central
31 plant situated adjacent to the hospital.

32 Mr. Bui discussed the challenges in establishing a second incoming service from the
33 utility company, which was a considerable expense and required specific allocations
34 and guarantees for power provision during emergencies.

35 Mr. Bui mentioned that most hospitals have individual power purchase agreements
36 (PPA) for photovoltaic (PV), battery, and fuel cell support but were designed to go
37 offline, causing a power loss.

1 Mr. Bui stated that the project electrical design contained:

- 2 • Normal Power Sources:
 - 3 ▪ Primary source of power is from Bloom FC (fuel cell) – On-site.
 - 4 ▪ Second source of utility power from SDG&E.
 - 5 ▪ Provision for future PV power connection.
 - 6 ▪ Provision for future Battery connection.
- 7 • Emergency Power Source:
 - 8 ▪ Two 2,000kW Diesel Generators.

9

10 Mr. Bui discussed the benefits of microgrid on the Kaiser Permanente San Marcos
11 project:

- 12 • The project had a different design compared to other Microgrids (12kV versus
13 480V, Normal Power versus Emergency Power).
- 14 • Hospitals can be fully functional during loss of utility power.
- 15 • No need for canceling surgery.
- 16 • System is fully automated- Bloom was responsible for all Power Purchase
17 Agreement (PPA) tolling rates.
- 18 • Eliminated a second utility power feed to the site.
- 19 • Eliminated need for a third 2MW emergency generator.
- 20 • Utility savings due to Bloom tolling rate plus gas being less than the average grid.
- 21 • Utilized the 12kV Main Service for the Microgrid.
- 22 • Less run time required for the generators and reduced air pollution.

23

24 Mr. Bui stated that the project went through installation, setting and testing, field
25 verification, microgrid final testing and commissioning.

26 Mr. Smith reported that Bloom Energy was fully capable of transitioning from natural gas
27 to hydrogen if the industry develops to be cost effective.

28 Mr. Griffiths stated his understanding of the electrical design was that the hospital would
29 be provided with normal power 24 /7 via the fuel cells which use non-renewable natural
30 gas.

31 Mr. Smith expressed that Bloom Energy fuel cell, at the facility, could autonomously
32 power specific loads around the clock, operating independently of the utility grid while

1 staying connected, enabling both inverter sets to function concurrently and provide a
2 valuable solution to protect facility loads from power quality issues or grid outages.

3 Mr. Smith said that Bloom Energy platform with the current fuel cell generation allowed
4 seamless blending of up to 20% hydrogen with natural gas without compromising
5 efficiency or output and had an option for a form factor designed for 100% hydrogen
6 use.

7 An interested party asked if the peak load and load-interval data was collected from the
8 project. Mr. Bui answered that the energy model gave peak demand around 2
9 megawatts and operated below 1.5 to 1.6 megawatts.

10 Mr. Johnson asked if the fuel cell energizes a cold transformer inrush when the utility
11 power is lost. Mr. Bui answered that the systems were continuously energized, not
12 initiated through a start-up process, and extended to the main 12 KV board on the grid-
13 independent side.

14 Mr. Johnson asked whether a seismic safety shut-off switch was required to stop the
15 natural gas supply to the fuel cell in case of seismic activity. Mr. Smith answered that
16 the seismic shut-off switch was not required for the project by SDG&E and AHJ.

17 Mr. Griffiths asked for lessons learned from the project and who was the commissioning
18 agent. Mr. Bui answered that there was a collaborative effort involving multiple parties,
19 including the owner and manufacturers, which enabled successful project completion,
20 resulting in a satisfying result. Mr. Bui did not give an answer regarding the commission
21 agent.

22 Mr. Johnson asked if running on natural gas would be cost-effective. Mr. Smith
23 answered that natural gas was a third of the cost of fuel sources tolling rate that Bloom
24 Energy charges.

25 Mr. Griffiths asked if the project was able to ramp up and down fuel cells to minimize the
26 response demand charges. Mr. Smith answered that step load capabilities were
27 dedicated to load following on the microgrid side for repeat demand charge.

28 Mr. Griffiths asked how the project team justified not using the local utility power, which
29 at times could comprise 100% renewable power, instead choosing to provide 100% of
30 the power via the fuel cells, which used 100% non-renewable source, given California's
31 greenhouse gas reduction goals and Kaisers corporate sustainability goals.

32 Mr. Hempstead was cut off due to poor cell coverage before providing a complete
33 answer.

34

35 **Informational and Action item**

- 36 • None

37

1 **5. Microgrid Components Review**

2 **Presenter:** John Griffiths, Committee Vice Chair

3

4 **Discussion and input**

5 Mr. Griffiths said legislative and code barriers were being removed, however, there
6 remained other barriers that needed to be overcome so teams could deliver sustainable
7 hospital microgrids for emergency and normal branches.

8

9 Mr. Griffiths highlighted various barriers to achieving a fully sustainable microgrid in
10 hospitals:

- 11 • Availability of seismically certified equipment.
- 12 • Education for facility engineers and designers so they can have the confidence to
13 incorporate these systems.
- 14 • The ability to demonstrate there was a robust support network in place, similar to
15 that provided by automatic transfer switches and generators, by experienced
16 technicians who are available 24/7.
- 17 • Lack of awareness of the value sustainable microgrids provide over and above
18 the traditional distribution system.

19

20 Mr. Johnson highlighted a critical concern about the rapid reduction in equipment
21 lifespan across industry manufacturers causing challenges as newer advanced facilities
22 coexist with older infrastructure.

23 Mr. Lockhart emphasized the importance of designing equipment for long-term use,
24 meeting industry regulations, and ensuring reliability and availability.

25 Mr. Bui stated that there was a need for strong cybersecurity measures in microgrid
26 technology to prevent cyber-attacks.

27 Mr. Schnick asked what HCAI role in health and safety of the microgrid was. Ms. Belair
28 answered that the Hospital Building Safety Board (HBSB) functions as an advisory
29 board to HCAI, providing guidance on the adoption of new technologies or code
30 modifications necessary to stay current in the industry.

31

32 **Informational and Action item**

33 Mr. Griffiths discussed several key points and next steps in pushing for advancements
34 in hospital microgrids:

- 35 • Get input from major manufacturers to deliver the systems.

- 1 • Identify what other barriers there are to delivering these systems and
- 2 components.
- 3 • HBSB could involve the community to produce a white paper or initiate
- 4 conversations to further innovation.
- 5 • Schedule a workshop and charette with major stakeholders to identify barriers
- 6 and the need for collective community involvement.

7

8 **6. Topics for future Committee meetings in 2024**

9 **Presenter:** Scott Jackson, Committee Chair

10

11 **Discussion and input**

12 Mr. Jackson stated that the committee topics for next year were:

- 13 • Research applications for Aircuity Inc. in California Universities.
- 14 • Code changes that affect Skilled Nursing Facilities.
- 15 • Discussion and public input.

16

17 Mr. Johnson asked about the primary proposed solutions focused on cost savings for
18 small to medium healthcare facilities. Mr. Schnick answered that he would give an
19 update and add the topic for future discussion.

20

21 **Informational and Action item**

- 22 • None

23

24 **7. Comments from the public/committee members on issues not on this agenda**

25 **Presenter:** Scott Jackson, Committee Chair

26

27 **Discussion and input**

- 28 • None

29

30

31 **Informational and Action item**

- 32 • None

33

34 **8. Adjournment**

35 Mr. Jackson adjourned the meeting on October 25, 2023, at approximately 1:50 p.m.

Education and Outreach Committee

Draft Meeting Report/Minutes

May 24, 2023

July 26, 2023

August 30, 2023

September 27, 2023

November 1, 2023

This page left intentionally blank.



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



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

**Wednesday, May 24, 2023
10:00 a.m. – 4:00 p.m.**

Teleconference Meeting Access:

[HBSB Teams EO Committee](#)

Access Code: 221-890-890

Committee Members Present

Scott Mackey, Chair
Cody Bartley, Vice Chair
Louise Belair
Deepak Dandekar
Gary Dunger
John Griffiths
Bert Hurlbut
Marshall Lew

Consulting Members Present

John Donelan
Kelly Martinez
Bruce Rainey

HCAI Staff Present

Chris Tokas, OSHPD Deputy Director
Monica Colosi
Mike Hooper
Jamie Schnick
John Grey

HBSB Staff Present

Ken Yu, Executive Director
Evet Torres
Veronica Yuke

1 **1. Welcome and introductions**

2 Scott Mackey, Committee Chair, called the meeting to order on May 24, 2023, at 10:00
3 a.m., and HBSB Executive Director, Ken Yu called roll.

4

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

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

4
5 Mr. Yu read the meeting rules and procedures.

6
7 **3. Review and Planning and Development of the 2023 Seminar: Guide for**
8 **Working on OSHPD Projects—Tips From the Experts**

9 **Presenter:** Scott Mackey, Committee Chair, and Mike Hooper, OSHPD

10 **Discussion and Input**

11 Mr. Hooper provided a clear breakdown of the objectives and the work that needed to
12 be done.

- 13 • Seminars were scheduled October 5, 2023, at DoubleTree-Newark and
14 October 10, 2023 at Hilton-Irvine.
- 15 • Seminar milestones:
 - 16 ▪ May 24- planning
 - 17 ▪ July 26 – slide presentation
 - 18 ▪ August 23 – final slide presentation
 - 19 ▪ September 20 – rehearsal
- 20 • Seminar session timeframe
 - 21 ▪ 8:30a.m through 4:45p.m.
 - 22 ▪ Introduction, 15 minutes
 - 23 ▪ Four sessions, 90 minutes each
 - 24 ▪ Closing comments, 15 minutes
- 25 • Resources
 - 26 ▪ Updated Tips from the Experts guide
 - 27 ▪ HCAI Slide format/backgrounds

28
29 Mr. Hooper communicated that the seminar would be divided into four sessions:

- 30 • **Session 1: HCAI/OSHPD- topics:**
 - 31 ▪ The History of the Guide
 - 32 ▪ HCAI/OSHPD W5 - who, what, when, where, and why?

- 1 ▪ Seven areas of OSHPD responsibility
- 2 ▪ OSHPD’s Quality of Service Survey
- 3 ▪ Appeals
- 4 ▪ Old and new services
- 5 ▪ Electronic Services Portal
- 6
- 7 • **Session 2: Tips for the owners- topics:**
- 8 ▪ Organizing the work
- 9 ▪ Project Selection and Identification Phase
- 10 ▪ Project Planning Phase
- 11 ▪ Design Phase
- 12 ▪ Permit Phase
- 13 ▪ Construction Phase
- 14 ▪ Close-Out Phase
- 15 • **Session 3: Working with OSHPD** which was divided into:
- 16 ▪ 3.1 Inspector of Record Guidelines- topics:
- 17 ▪ Certified Hospital Inspector Code of Ethics
- 18 ▪ Knowledge
- 19 ▪ Principal Duties
- 20 ▪ Documentation and Processing “Materially Alter” Items
- 21 ▪ Additional Duties
- 22 ▪ Type of Inspections Provided by the Inspector of Records
- 23 (IOR)
- 24 ▪ Other Project-Related Duties
- 25 ▪ Checklists
- 26 ▪ Coordination Concerns
- 27 ▪ Preconstruction Meetings
- 28 ▪ OSHPD Interaction
- 29 ▪ 3.2 Testing, Inspection and Observation Guidelines (TIO)- topics:
- 30 ▪ Purpose
- 31 ▪ Maintenance and Administration

- 1 ▪ Format
- 2 ▪ Instruments
- 3 ▪ Contract Drawings
- 4 ▪ Instructions
- 5 ▪ Responsible Personnel
- 6 ▪ Tests and Inspections
- 7 ▪ Milestones and Intervals
- 8 ▪ Samples
- 9 ▪ TIO Modifications
- 10 ▪ Approval
- 11 ▪ 3.3 Working with HCAI/OSHPD Field Staff- topics:
- 12 ▪ Steps, Process and Procedures
- 13 ▪ Inspection Team
- 14 ▪ Challenges and Recommendations
- 15 ▪ Contractor
- 16 ▪ Design Team
- 17 ▪ Owner
- 18 • **Session 4: HCAI/OSHPD Roles and Jurisdiction**
- 19 ▪ 4.1 HCAI/OSHPD Roles and Jurisdiction
- 20 ▪ 4.2 Geologic Hazards
- 21 ▪ 4.3 Architect's Roles and Responsibilities- Topics:
- 22 ▪ Submittal Documents
- 23 ▪ Coordination, Consistency, Clarity, Correctness
- 24 ▪ Renovations, Additions and Special Conditions
- 25 ▪ Accessibility
- 26 ▪ Details
- 27 ▪ EJ's
- 28 ▪ 4.4 The Structural Engineer's Roles and Responsibilities- topics:
- 29 ▪ Primary Structure
- 30 ▪ Building Systems
- 31 ▪ 4.5 MEP Roles and Responsibilities

1 Mr. Lew discussed the importance of California Geological Survey - Note 48. This note
2 is used to assess geological, seismological, and geological hazards in reports prepared
3 under the California Code of Regulations (CCR) Title 24, California Building Code (2022
4 CBC).

5

6 Mr. Mackey inquired about the Fire Life Safety topic. In response, Mr. Tokas confirmed
7 that the topic had been allocated a specific seminar, but it would also be covered in the
8 context of architectural and mechanical designs.

9

10 Mr. Hooper asked if the seminar would be broadcasted virtually. Ms. Torres answered
11 that the seminar would be recorded but not broadcast virtually.

12

13 **Informational and Action item**

- 14 • None

15

16 **4. Update on Educational Webinars – Establish Curriculum and calendar dates**

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

18 **Discussion and Input**

19 **A. Offsite Fabrication/Pre-assembled**

20 The webinar was scheduled to be presented on July 26, 2023.

21 Mr. Bartley proposed that there be three meetings before the presentation.

- 22 • The first meeting scheduled for June 13, 2023. Topics to be discussed:

23 ▪ Discussion of media for the webinar.

24 ▪ Story board for the webinar

25 ▪ Definitions

26 ▪ Design speaking points and roles

27 ▪ Time frame

28

- 29 • Second meeting – June 27, 2023, topic:

30 ▪ Review of slides from the first meeting

31

- 32 • Third meeting – July 11, 2023, topics:

33 ▪ Run through slide deck and ready for presentation

1 **B. California Administrative Code**

2 The webinar was on hold until year's end.

3

4 **C. Policy Intent Notice (PIN) 50: Integrated Review**

5 Mr. Dunger said that the presentation material would be ready by the July 26, 2023, the
6 committee meeting.

7

8 **D. Emergency Process Design Guide**

9 Mr. Dunger updated that the final draft of the design guide has been submitted for
10 review and approval before the scheduled committee meeting on July 26, 2023.

11

12

13 **E. OSHPD 3 Clinics**

14 Mr. Dunger said that the presentation was completed. An in-person seminar was
15 scheduled in the spring of 2024.

16

17 **F. PINs and Code Application Notices (CANs)**

18 The topic will be discussed and reviewed at the upcoming committee meeting.

19

20 **Informational and Action item**

- 21 • None

22

23

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

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

26 Future Education and Outreach Committee meetings:

- 27 • July 26, 2023
28 • August 23, 2023
29 • September 20, 2023
30 • October 11, 2023
31 • November 1, 2023

32

1 **Discussion and input**

- 2 • None

3

4 **Informational and Action item**

- 5 • None

6

7 **6. Adjournment**

8 Mr. Mackey adjourned the meeting on May 24, 2023, at approximately 11:54 a.m.

This page left intentionally blank.



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



HOSPITAL BUILDING SAFETY BOARD Education and Outreach Committee

Wednesday, July 26, 2023
10:00 a.m. – 4:00 p.m.

Teleconference Meeting Access:

[HBSB Teams EO Committee](#)

Access Code: 745-662-458

Committee Members Present

Scott Mackey, Chair
Cody Bartley, Vice Chair
Louise Belair
Gary Dunger
Bert Hurlbut
David Khorram
Marshall Lew

HCAI Staff Present

Richard Tannahill
Monica Colosi
Mike Hooper
Jamie Schnick
James Yi

Consulting Members Present

Kelly Martinez
Bruce Rainey
Belinda Young

HBSB Staff Present

Veronica Yuke, Acting Executive Director
Evet Torres

1. **Welcome and introductions**

- 2 Scott Mackey, Committee Chair, called the meeting to order on July 26, 2023, at 10:00
- 3 a.m., and HBSB Acting Executive Director Veronica called roll.

4

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

2 Eight members of the Committee present constitute a quorum. There being ten present
3 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 May 24, 2023, meeting report/minutes**

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

9

10 **Discussion and Input**

- 11 • None

12

13 **MOTION: [Bartley/Hurlbut]**

14 The committee unanimously voted to accept and approve the May 24, 2023, meeting
15 reports/minutes.

16

17 **Informational and Action item**

- 18 • None

19

20 **4. Planning and Development of the 2023 Seminar: Guide for Working on OSHPD**
21 **Projects—Tips From the Experts**

22 **Presenter:** Scott Mackey, Committee Chair, and Mike Hooper, HCAI

23 **Discussion and Input**

24 Mr. Hooper updated that the seminar dates were October 5 and October 10.

- 25 • Seminar session timeframes:
- 26 ▪ 8:30AM through 4:45PM, (2-15 Minute Breaks) (1-75 Minute Lunch)
 - 27 ▪ Introduction, 15 Minutes
 - 28 ▪ Four Sessions, 90 Minutes Each
 - 29 ▪ Closing Comments, 15 Minutes

30

- 31 • Resources to be used:
- 32 ▪ Updated Guide: “Tips form the Experts”
 - 33 ▪ HCAI Slide format/backgrounds.

34

- 1 • Deliverables and progress metrics:
- 2 ▪ Updated Guide: Tips from the Experts- underway
- 3 ▪ Finalize Participants/Presenters - completed
- 4
- 5 • Slide development:
- 6 ▪ Session 1, HCAI/OSHPD- Mr. Tokas and Mr. Tannahill
- 7 ▪ Session 2- Tips from the Owners – Mr. Dunger, Mr. Hurlbut, and
- 8 Ms. Martinez
- 9 ▪ Session 3- Working with HCAI in the Field – Mr. LaBrie, Mr. Hooper,
- 10 and Ms. Colosi
- 11 ▪ 3.1 Inspector of Record Guidelines
- 12 ▪ 3.2 Testing, Inspection and Observation Guidelines (TIO)
- 13 ▪ 3.3 Working with HCAI/OSHPD Field Staff
- 14 ▪ Session 4- Submittals, Design and HCAI Review
- 15 ▪ 4.1 HCAI/OSHPD Roles and Jurisdiction- Mr. Tannahill
- 16 ▪ 4.2 Geologic Hazards- Mr. Lew
- 17 ▪ 4.3 Architect’s Roles and Responsibilities- Mr. Mackey and Mr.
- 18 Dunger
- 19 ▪ 4.4 The Structural Engineer’s Roles and Responsibilities- Mr.
- 20 Malley
- 21 ▪ 4.5 Mechanical, Electrical, and Plumbing (MEP) Roles and
- 22 Responsibilities- Ms. Belair and Mr. Griffiths
- 23 ▪ Closing comments – Mr. Tokas.

24

25 Mr. Mackey gave an overview of work by phase for owners.

- 26 • Project Selection and Identification Phase – facility master plan to identify
- 27 upcoming project, budget, then identify the project in terms of an overall
- 28 schedule.
- 29 • Project Planning, Scheduling, & Budgeting Phase – construction permit
- 30 status, regulatory environment, strategies to ensure feasibility.
- 31 • Design Phase – design problems that impact the satisfactory completion of
- 32 HCAI process.
- 33 • Permit Phase – plans can be reviewed through HCAI website.

- 1 • Construction Phase – The California Building Standards Administrative Code
2 requires that all hospital construction be continuously observed by an HCAI-
3 certified Inspector of Record (IOR).
- 4 • Close-Out Phase – Before the hospital can use a newly constructed building,
5 the work must be approved by HCAI field staff, and a certificate of occupancy
6 must be issued.
- 7 • Owner Considerations - To ensure compliance throughout a construction
8 project, it is important to post and save the Infection Control Risk
9 Assessment, Pre-Construction Risk Assessment, and Interim Life Safety
10 Measures, at the job site as part of the project documents. This will allow for
11 proper monitoring and inspection of the activity.

12

13 Mr. Hooper gave a summary on session 3: Inspector of Record. The topics include:

- 14 • Certified Hospital Inspector Code of Ethics - Hospital Inspectors of Record
15 should adopt and follow the Code of Ethics to provide high ethical standards
16 to safeguard the public, the profession, and the state’s physical healthcare
17 infrastructure.
- 18 • Knowledge – what the IOR needs to know in terms of Policy Intent Notices
19 (PINs), Code Application Notices (CANs), contract document requirements,
20 project schedules, and instructions issued by design professionals of records.
- 21 • Principal Duties to the project – personal knowledge, continuous inspection,
22 maintain detailed files of documents.
- 23 • Materially Alter or Not– code language and documentation of changes.
- 24 • Additional Duties – keeping up a detailed record.
- 25 • Types of Inspections Provided by the IOR – requirements of documentation,
26 inspection request programs.
- 27 • Other Project-Related Duties – attending preconstruction meetings,
28 collaborating with owners and contractors.
- 29 • Checklists – importance of checklists.
- 30 • Coordination Concerns – correspondence and importance of communication
31 with the team; understanding hospital related activities.
- 32 • Preconstruction Meetings – attendees, details within the guide for working on
33 projects under HCAI jurisdiction.
- 34 • HCAI Interaction – relationship between OSHPD, IOR, and the design
35 professionals.

- 1 • Testing Inspection and Observation Guidelines (TIO) – management of TIO,
2 sample reports, advantages of TIO, and benefits of the projects, special
3 inspections, milestones, and intervals.
- 4 • Working with HCAI Field Staff – relationship between OSHPD, IOR, and
5 AOR; aspect of the project, design team responsibilities.

6

7 Mr. Tannahill stated that the topic would address roles and responsibilities of design
8 professionals, meeting with OSHPD, CDPH, and the Local Jurisdictions CAN 2-0,
9 submittal documents, engineering judgements.

10

11 Mr. Tannahill asked if there was going to be any mention of when the TIO is supposed
12 to be filled out. Mr. Hooper responded that it would be addressed in the webinar.

13

14 **Informational and Action item**

- 15 • None

16

17 **5. Update on Educational Webinars**

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

19 **Discussion and input**

20 **A. Offsite Prefabrication and Preapproved fabricated components**

21 Mr. Bartely gave an update on the education webinars.

- 22 • HCAI’s view of prefabrication and preapproved fabricated components
23 – Importance of prefabrication to the industry - Mr. Tannahill or
24 Mr. Tokas.
- 25 • Architect view of offsite prefabrication and preapproved fabricated
26 components – Benefits of prefabrications - Ms. Endres or Mr. Mackey.
- 27 • Contractor view of offsite prefabrication and preapproved fabricated
28 components – Mr. Bartley.
- 29 • Background of prefabrication from HCAI website – Mr. Tannahill or
30 Mr. Tokas.
- 31 • Definitions – Mr. Tannahill or Mr. Tokas.
- 32 • Prefabricated systems- examples and options – Mr. Asgari and
33 Mr. Sumer.
- 34 • Examples of preassembled or prefabricated options – Mr. Bartley and
35 Ms. Endres.

- 1 • Distinctions between offsite prefabrication – Mr. Bartley and
- 2 Mr. Tannahill.
 - 3 ▪ Location – adjacent to site or out of State.
 - 4 ▪ Purpose – project specific or product specific requiring
 - 5 preapproval.
- 6 • Purpose – Mr. Asgari.
- 7 • The Why – Mr. Bartley and Ms. Endres.
- 8 • Goals of PCS (Prefabricated Components and Systems) – Mr. Bartley.
- 9 • Design for manufacture and assembly – Ms. Endres and Mr. Mackey.
- 10 • Timing to integrate PPCS (Preapprove Prefabricated Components and
- 11 Systems) into design – Ms. Endres and Mr. Mackey.
- 12 • PPCS approval process – Mr. Sumer.
- 13 • Offsite project specific prefabrication – Mr. Bartley.
- 14 • Offsite prefabrication inspection process – Mr. Bhatia
 - 15 ▪ Offsite inspection at prefabrication site
 - 16 ▪ On-site inspections
 - 17 ▪ Weatherization
 - 18 ▪ Change management
 - 19 ▪ Examples of PPCS on HCAI projects
- 20 • The Ask – point of putting up the webinar – Mr. Bartley
- 21

22 **B. California Administrative Code**

23 Currently on hold.

24

25 **C. Policy Intent Notice (PIN) 50: Integrated Review**

26 Mr. Dunger said that he had already submitted the slides that focused on electronic plan

27 review contributor role and how owners or designers would interface with the program.

28

29 **D. Emergency Process Design Guide**

30 Mr. Tannahill stated that the guide was in the final review and formatting stage.

31

1 **E. PINs and Code Application Notices (CANs)**

2 Mr. Tannahill updated that the presentation on this would be done soon.

3

4 Mr. LaBrie asked what the intent of the webinar was. Mr. Bartley stated that the purpose
5 of the webinar is to provide education and increase awareness about the PCS program.

6

7 **Informational and Action item**

- 8 • None.

9

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

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

12

13 **Discussion and input**

- 14 • None.

15

16 **Informational and Action item**

- 17 • None.

18

19 **7. Adjournment**

20 Mr. Mackey adjourned the meeting on July 26, 2023, at approximately 12:05 p.m.

This page left intentionally blank.



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



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

**Wednesday, August 30, 2023
10:00 a.m. – 4:00 p.m.**

Teleconference Meeting Access:

[HBSB Teams EO Committee](#)

Access Code: 878-061-056

Committee Members Present

Scott Mackey, Chair
Cody Bartley, Vice Chair
Louise Belair
Michael Davis
Gary Dunger
Teresa Endres
John Griffiths
Bert Hurlbut
Marshall Lew
Jim Malley

HCAI Staff Present

Arash Altoontash
Richard Tannahill
Monica Colosi
Mike Hooper
Mia Marvelli
Nanci Timmins
John Grey

Consulting Members Present

Kelly Martinez
Belinda Young
Bill Zellmer

HBSB Staff Present

Veronica Yuke, Acting Executive Director
Evet Torres

1 **1. Welcome and introductions**

2 Scott Mackey, Committee Chair, called the meeting to order on August 30, 2023, 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 Eight members of the Committee present constitute a quorum. There being thirteen
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 July 26, 2023, meeting report/minutes**

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

9 Mr. Mackey reviewed the July 26, 2023, meeting minutes. The following topics were
10 discussed:

- 11 • Planning and Development of the 2023 Seminar: Guide for Working on OSHPD
12 Projects—Tips From the Experts
- 13 • Seminar session time frames - the seminar dates October 5 and October 10
- 14 • Webinar slide developments
- 15 • Update on the education webinars.

16
17 **Discussion and Input**

- 18 • None

19
20 **MOTION: [Bartley/Lew]**

21 The committee unanimously voted to accept and approve the July 26, 2023, meeting
22 reports/minutes.

- 23 • Cody Bartley – Yes.
- 24 • Louise Belair – Yes.
- 25 • Michael Davis – Yes.
- 26 • Gary Dunger – Yes.
- 27 • Teresa Endres – Yes.
- 28 • John Griffiths – Yes.
- 29 • Bert Hurlbut – Yes.
- 30 • Marshall Lew – Yes.
- 31 • Jim Malley – Yes.
- 32 • Kelly Martinez – Yes.

- 1 • Belinda Young – Yes.
- 2 • Bill Zellmer – Abstain.

3

4 Informational and Action item

- 5 • None

6

7 **4. Planning and Development of the 2023 Seminar: Guide for Working on OSHPD** 8 **Projects—Tips From the Experts**

9 **Presenter:** Scott Mackey, Committee Chair, and Mike Hooper, HCAI

10 **Discussion and Input**

11 Mr. Hooper announced that the seminar would be based on "The Guide for Working on
12 Projects Under OSHPD Jurisdiction: Tips from the Experts."

13 Mr. Hooper said that the seminar rehearsal was scheduled for 27th September 2023.

14 Ms. Martinez outlined Tips for Owners organizing the work by phase.

- 15 • Project Selection and Identification Phase – understanding the overall
16 masterpiece facility plan and program and assisting hospitals in interpreting
17 clinic building code requirements properly – CAN 1-7-2100.
- 18 • Project Planning Phase – Develop a full understanding of the regulatory
19 environment that affects the project.
- 20 • Design Phase – requires that the design team of architects and engineers
21 design the current California Building Code.
- 22 • Permit Phase – monitoring the progress of plan review process through
23 OSHPD. All needed forms can be obtained from the OSHPD website.
- 24 • Construction Phase – California Building Standard Administration Code
25 required that all hospitals contractions be observed continuously by an
26 OSHPD-certified IOR (Inspector of Records). The IOR performs inspections
27 of all alterations, modifications, and existing and new hospital buildings.
- 28 • Close-Out Phase – OSHPD field staff must approve the work before a
29 substantial compliance, certificate of occupancy or construction final for the
30 construction.
- 31 • Owner Considerations – infection control risk assessment (ICRA) Pre-
32 construction Risk Assessment (PCRA), AND Interim Life Safety Measures
33 (ILSM) be posted at job sites to ensure activities can be monitored and
34 inspected for compliance throughout the duration of the project.

35

1 Mr. Lew stated that Geologic Hazards would be based on Note 48, which are standards
2 employed by the California Geological Survey (CGS) to accurately evaluate the
3 geology, seismic activity, and geologic hazards that are assessed in reports prepared
4 under the California Code of Regulations (CCR) Title 24, California Building Code.

5

6 Mr. Lew gave an updated version of Note 48 checklist for the review of Engineering
7 Geology and seismology reports.

- 8 • Project location.
- 9 • Engineering geology and site characterization.
- 10 • Seismology and calculation of earthquake ground motion.
- 11 • Time histories / fault rupture eval.
- 12 • Liquefaction / settlement analysis.
- 13 • Slope stability analysis.
- 14 • Other hazards / adverse site conditions.
- 15 • Report documentation.

16

17 Mr. Tannahill gave an overview of the roles and responsibilities of the registered design
18 professional in responsible charge- architectural.

- 19 • Keys to teams success.
- 20 • Meeting with OSHPD, CDPH (California Department of Public Health) and the
21 local jurisdictions.
- 22 • Defining the project scope and the anticipated submittals
- 23 • OSHPD jurisdiction and how it relates to CDPH.
- 24 • Submittal documents.
- 25 • Engineering judgments.
- 26 • Collaboration between internal SE, design team and project team.

27

28 Mr. Malley talked about the structural engineer's roles and responsibilities.

- 29 • Analysis – analysis modelling and calculations.
- 30 • Design - Interconnection of primary structure to complete load path.
- 31 • Collaboration – between Internal SE team, design team, and project team.

- 1 • Coordination - Synchronize analysis, design, detailing. BIM/Drawings, testing,
2 and specifications.
- 3 • Plan review – treating OSHPD as a partner.
- 4 • Construction support.
- 5 • Deferral approval process – prioritize deferral approval.
- 6 • QA/QC and TIO (Testing, Inspection and Observation) – develop TIO
7 program and working OSHPD field staff.

8

9 Ms. Belair stated the Mechanical, Electrical, and Plumbing (MEP) roles and
10 responsibilities will cover:

- 11 • Design phase – mechanical, electrical, and plumbing tips.
- 12 • OSHPD review – coordinate with OSHPD staff.
- 13 • Construction – importance of TIO, field visits.

14

15 Mr. Hurlbut asked if the slides for the seminar were being created simultaneously with
16 the updating of The Guide, as some of the slides required The Guide to be completed.

17 Mr. Hooper answered that the Guide would be completed and available for slide
18 development before September 27th.

19 Mr. Tannahill recommended presenting session 4 before session 3, in accordance with
20 The Guide sequence.

21 Mr. Griffiths asked if the seminar would be streamed or recorded. Ms. Torres confirmed
22 that the HCAI Public Affairs Office team would record the seminar.

23 Mr. LaBrie asked if there could be a panel discussion with HBSB board members to
24 answer questions from the public. Mr. Tannahill answered that there would be a session
25 dedicated to Q and A.

26 Ms. Torres asked how the microphones would be handled, especially in the Q and A
27 session. Mr. Mackey suggested that the participants could use cards to write questions
28 and then the presenters to answer.

29

30 **Informational and Action item**

- 31 • None

32

33

1 **5. Update on Educational Webinars**

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

3 **Discussion and input**

4

5 **A. Offsite Prefabrication and Preapproved fabricated components**

6 Mr. Bartely stated that the committee was still working on The Guide- Tips from Experts.

7 Ms. Young stated that the TIO was in draft format and was still under review.

8

9 **B. Policy Intent Notice (PIN) 50: Integrated Review**

10 On progress.

11

12 **C. Emergency Process Design Guide**

13 Ms. Endres said they were waiting for the end of publication of the emergency design
14 guide to develop the webinar.

15

16 **Informational and Action item**

- 17 • None.

18

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

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

21 Future Education and Outreach Committee meetings:

- 22 • September 27, 2023
23 • November 1, 2023

24

25 **Discussion and input**

- 26 • None.

27

28 **Informational and Action item**

- 29 • None.

30

1 **7. Adjournment**

2 Mr. Mackey adjourned the meeting on August 30, 2023, at approximately 1:00 p.m.

This page left intentionally blank.



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



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

**Wednesday, September 27, 2023
10:00 a.m. – 4:00 p.m.**

Teleconference Meeting Access:
[HBSB Teams EO Committee](#)
Access Code: 451-325-571

Committee Members Present

Scott Mackey, Chair
Cody Bartley, Vice Chair
Louise Belair
Gary Dunger
Teresa Endres
John Griffiths
Bert Hurlbut
Marshall Lew
Jim Malley

HCAI Staff Present

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

Consulting Members Present

Kelly Martinez
Belinda Young

HBSB Staff Present

Veronica Yuke, Acting Executive Director
Marcus Palmer
Evet Torres

1. Welcome and Introductions

- 2 Scott Mackey, Committee Chair, called the meeting to order on September 27, 2023, at
- 3 10:00 a.m., and Acting HBSB Executive Director Veronica Yuke called roll.

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

2 Eight 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. Review the Guide for Working on OSHPD Projects—Tips from the Experts**

8 **Presenter:** Mia Marvelli, HCAI

9 Ms. Marvelli stated that The Guide edits updates were:

- 10 • The preface updated to reflect Chris Tokas' thoughts.
- 11 • Name changes, FDD to OSHPD, OSHPD to HCAI and spelled out, and Inspector
12 to Inspector of Record (IOR).
- 13 • The rapid review unit – removed from the Building Safety Sector.
- 14 • Geohazard tips – added to The Guide.
- 15 • Updated section 1.1 Authority of OSHPD to include additional regulations
16 enforced by OSHPD, adding Part 6 of Title 24 California Energy Code and Part
17 10 of Title 24 California Existing Building Code.
- 18 • Section 3.4 Fire and Life Safety Drawings – images added and refined, links
19 added, and updated terms.
- 20 • Section 3.10 Guidelines for Mechanical Drawings- provided demo drawing,
21 impact on air-handling unit by the remodel, Part 6, CA Energy Code compliance,
22 added tip: Visit Energy Code Ace.
- 23 • Section 3.11 Guidelines for Plumbing Drawings - fixture schedule, demonstrate
24 handwashing fixtures meet all CPC 210 requirements, provide NPC-5 compliant
25 water and waste emergency storage systems information, submit NPC-5 water
26 rationing plan, added tip: Consult Advisory Guide A5.
- 27 • Section 4.1 – 4.3 Certified Hospital Inspector Code of Ethics - Edits to reflect new
28 IOR California Administrative Code Changes, edits to reflect nonmaterial
29 alterations California Administrative Code changes and CAN 1-7-153(b)
30 changes.
- 31 • Section 5 Testing, Inspection and Observation (TIO) Guidelines – formatting to
32 explain the TIO application and spreadsheet.
- 33 • Section 6 Guidelines for Working with OSHPD Field Staff – edits to reflect
34 amended construction documents and non-material alterations.

- 1 • Section 7.4 Project Planning Phase - expanded description and need for a
2 comprehensive functional program, tips added for certificate of Substantial
3 Compliance, Construction Final report or Certificate of Occupancy must be
4 issued to start the CDPH (California Department of Public Health) licensing
5 application process, a reminder that local school taxes must be paid prior to
6 issuance of a building permit, use of local firm as a joint venture for large projects
7 using out-of-state firm.
- 8 • Section 7.6 Permit Phase - added Infection Control Risk Assessment (ICRA)
9 section, included information that OSHPD had developed a project review time
10 calculator to establish reasonable time frames for review and backchecks.
- 11 • Section 7.8 Close Out Phase – reminder to project teams to be aware of
12 remaining activities outside of OSHPD’s authority to become operational.
13

14 Ms. Marvelli said that glossary, acronyms, and definition updates were still being made.

15 **Discussion and Input**

16 Mr. Hurlbut asked where the Guide could be accessed. Ms. Marvelli answered that the
17 Guide had been taken off the Cloud to avoid more edits but would be back online before
18 the presentation date October 5, 2023.

19 Mr. Griffiths asked if the terms and definitions were referencing those in the code.

20 Ms. Marvelli said that the terms and definitions were referencing the building codes.

21 Mr. Griffiths asked if there was a process for the public to comment or ask question on
22 the Guide. Ms. Marvelli answered that there was an email for sending comments, but
23 there would be pauses for comments during the presentation.

25 **Informational and Action item**

- 26 • None

28 **4. Practice run for the upcoming 2023 Educational Seminar California Hospital 29 Projects A to Z, Tips from the Experts, scheduled for Thursday, October 5, 30 2023, in Newark, and Tuesday, October 10, 2023, in Irvine**

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

32 **Discussion and Input**

33 **Session 1: HCAI/OSHPD**

34 Mr. Tokas stated that in 2003, Hospital Building Safety Board (HBSB), California
35 Healthcare Association (CHA), in collaboration with the California Society of Healthcare
36 Engineers and design professionals, published the first project management design and

1 collaboration of buildings under OSHPD jurisdiction as a general guideline and
2 reference tool.

3 He added that in 2006, OSHPD, with help from HBSB and other design professionals,
4 republished, updated, and renamed the manual to Guide for Working on Projects Under
5 OSHPD Jurisdiction: Tips from the Expert.

6 Mr. Tokas explained that HCAI's mission is to expand equitable access to quality,
7 affordable health care for all Californians through resilient facilities, actionable
8 information, and the health workforce each community needs.

9 Mr. Tokas said that HCAI is comprised of the following offices:

- 10 • Health Facility Loan Insurance - Provides loan insurance for non-profit healthcare
11 facility development.
- 12 • Health Care affordability – promotes strategies for managing the cost of health
13 care and improving affordability for consumers and purchasers while maintaining
14 or improving quality and equity and enforcing cost targets.
- 15 • Information Services - collects data and distributes information on health and
16 healthcare in California.
- 17 • Healthcare Workforce Development: Shortage Designation, Research, Data,
18 Funding, Loan Repayments, Internships, Pilot Projects, and Resources
- 19 • Hospital Planning and Development - reviews and inspects health facility
20 construction projects.

21 Mr. Tokas mentioned that OSHPD's purpose is to advance partnerships with healthcare
22 design professionals and providers to build safe, sustainable, and resilient facilities for
23 all Californians, that remain functional through all disasters.

24 He said that OSHPD funding sources are from fees paid by hospitals and Skilled
25 Nursing Facilities (SNFs) for plan review and building permits of construction projects.

26 Mr. Tokas highlighted that OSHPD has two physical locations:

- 27 • Sacramento, California, headquarters – headed by Mr. Tannahill, Deputy Division
28 Chief.
 - 29 ○ Building Safety Section
 - 30 ○ Building Standard Unit
 - 31 ○ Structural Support Section
 - 32 ○ Division Support Section
- 33 • Los Angeles office – headed by Mr. Altoontash, Deputy Division Chief.
 - 34 ○ Building Safety Section
 - 35 ○ Fire Prevention Unit

1 ○ Inspection Service Unit

2

3 Mr. Tokas gave the seven areas of OSHPD responsibilities:

- 4 • Develop Building Standards for hospitals, skilled nursing, clinics, and
5 Correctional Treatment Centers.
- 6 • Plan review and approval of hospital and skilled nursing construction projects.
- 7 • Building permit and construction observation of hospital and skilled nursing
8 construction projects.
- 9 • Hospital Seismic Retrofit Program (SB 1953).
- 10 • Hospital Building Safety Board (Advisory and Appeals Board).
- 11 • Emergency response after an earthquake or other disaster.
- 12 • Research: earthquake engineering; new and advanced technologies; computer
13 analyses.

14

15 Mr. Mackey asked if there would be an added topic on behavioral health under project
16 types. Mr. Tokas answered that the topic would be added.

17

18 **Session 2: Tips from the Owners**

19 Mr. Dunger stated that the presentation follows the Guide, organizing the work by
20 phase. The topics were:

- 21 • Project Selection and Identification Phase – presented by Mr. Dunger.
 - 22 ○ Develop an overall master facility plan and program that are construction
23 specific.
 - 24 ○ Clinic and outpatient facilities - CAN 1-7-2100.
 - 25 ○ Long-term building planning- refers to CAN 1-6-1.4.5.1.
 - 26 ○ Invest the necessary time and resources.
- 27 • Project Planning Phase
 - 28 ○ Unauthorized constructions and consequences – working without a
29 permit is considered unauthorized construction.
 - 30 ○ Functional program – critical aspect in understanding the project from
31 design team, owners, and OSHPD standpoint.
 - 32 ○ Project management – the value of having the right project
33 management and the responsibilities of project managers.

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36

- Design team – Use contractors that provide code-compliant drawings to avoid extra charges.
- Regulatory requirements- OSHPD has jurisdiction over construction in healthcare facilities, but it is not the only public agency involved.
- Project feasibility – make certain that the total project budget and the scope of the project match.
- Project delivery models – the style of delivering the project can influence the success of the project.
- OSHPD approaches to review and permitting.

- Design Phase – identifying areas that have led to unsuccessful projects.
 - Flexibility for change – a good design goal of any hospital project should be to provide flexibility to change.
 - Design flexibility into hospitals – develop a shelling strategy that can be used as an alternate approved design or amended construction document.
 - Geotechnical reports – submit a geotechnical report in a timely manner using experienced firms.
 - Design team – OSHPD expects licensed design professionals to adhere to the codes while preparing construction documents.
 - Importance of a preliminary review – during the design process, it is important to determine whether early permits are needed for certain sections of the work.
 - Incremental submittals - OSHPD allows larger new construction projects to have complete phases of construction broken into incremental submittals for permitting.
 - Construction documents - once the construction documents are finalized, any changes to programs or services will result in additional costs and delays.
 - Deferred submittals - deferred submittals may be used for large or technologically sensitive pieces of clinical equipment when there will be long periods of time between design and installation.
 - Application process - it is the responsibility of design professionals to prepare the OSHPD plan review application.

- 1 • Permit Phase – Presented by Ms. Martinez.
 - 2 ○ Plan review process - Monitor progress of plan review, track review
 - 3 cycles, monitor number of reviews, and secure committed timeline.
 - 4 ○ Reasons for project delays - Careful planning, minimizing changes during
 - 5 reviews and construction, and active management of review process are
 - 6 crucial to preventing project delays.
 - 7 ○ OSHPD forms after plan approval - Obtain all needed OSHPD forms on
 - 8 the OSHPD website to ensure they are current.
 - 9 ○ Obtaining building permit – after approval by OSHPD, submit an
 - 10 application for Building Permit using the OSHPD eServices Portal.
 - 11 ○ Inspector of record - The IOR is required to provide for competent,
 - 12 adequate, and continuous inspection.
 - 13 ○ Notice of start of construction - date the actual physical work,
 - 14 demolition, construction, repair, reconstruction, rehabilitation, addition,
 - 15 preparation of the site for the first placement of permanent construction of
 - 16 a building.
 - 17 ○ Permit lapse - Construction must commence within one year of plan
 - 18 approval. Failure to do so will cause the permit to expire, and with it, the
 - 19 approval of the plans.
 - 20 ○ Comment and process reviews (CPR) – procedures clients would use to
 - 21 promptly resolve issues concerning plan review and construction
 - 22 observation comments.
 - 23 ○ CPR path level contacts.
- 24 • Construction Phase – presented by Mr. Hurlbut.
 - 25 ○ Material alterations to approved construction documents – only changes
 - 26 that materially alter the work shall be submitted to OSHPD as an
 - 27 Amended Construction Document (ACD) - for review and approval.
 - 28 ○ Contactor - any changes to plans and specifications that materially alter
 - 29 the work require OSHPD approval prior to the execution of the work.
 - 30 ○ Changes to approved documents - changes to approved construction
 - 31 documents must be approved by OSHPD staff and are documented using
 - 32 the OSHPD Application for Amended Construction Documents.
 - 33 ○ Owner - when considering changes, evaluate if they are necessary or just
 - 34 preferences to avoid project delays and increased costs.

- 1 ○ Critical path expedite review - an ACD causing undue delay to
- 2 construction schedule may trigger the Critical Path Expedite Review
- 3 (CPER) process.
- 4 ○ Field staff availability - OSHPD field staff ensures hospital buildings
- 5 comply with regulations in the approved construction documents and
- 6 applicable statutes and regulations.
- 7
- 8 ● Close-Out Phase – presented by Mr. Dunger.
 - 9 ○ OSHPD field staff must approve the work before issuing a Certificate of
 - 10 Occupancy or a Certificate of Substantial Compliance.
 - 11 ○ Project close-out should be considered at the beginning of the project and
 - 12 should be a continuing effort throughout the project.
 - 13 ○ Professionals, inspectors, and contractors must obtain verified compliance
 - 14 reports prior to project completion and follow the TIO program schedule.
 - 15 ○ Types of project closure - It is the goal of the OSHPD to close every
 - 16 project in compliance.
 - 17 ○ Project closure checklist - An excellent tool to ensure all documents and
 - 18 test reports are obtained and demonstrate compliance to OSHPD Field
 - 19 Staff.
 - 20 ○ Re-opening closed projects - Hospitals can request to reopen a closed
 - 21 project for compliance by submitting a "Re-Open Closed Project" record
 - 22 through the OSHPD eServices Portal.
- 23 ● Owner Considerations – presented by Ms. Martinez.
 - 24 ○ Healthcare-acquired infections – facility design plays a critical role in both
 - 25 acquiring and preventing health-associated infections.
 - 26 ○ 3Infection Control Risk Assessment (ICRA) - used to help reduce the
 - 27 infection risk during construction and can help identify potential risk to the
 - 28 healthcare environment.
 - 29 ○ The ICRA process - meet with facility infection control practitioners to
 - 30 determine necessary measures and incorporate ICRA in design and send
 - 31 to contractor before bidding.
 - 32 ○ Pre-construction risk assessment (PCRA)- before any construction starts,
 - 33 a PCRA must be completed to identify potential risks and the
 - 34 corresponding measures to be taken by the contractor.
 - 35 ○ Interim Life Safety Measures (ILSM) - the ICRA, PCRA, and ILSM should
 - 36 be posted at the job site and saved as part of the project documents.

- 1 ○ Activation - the process of preparing people, fixture, furniture, and
- 2 equipment (FFE), and facilities for move-in and start-up.
- 3 ○ Licensing - provide sufficient time in the project schedule for required
- 4 licensure.
- 5 ○ Owner considerations - an aware and involved owner is the major key to a
- 6 successful project.

7

8 Ms. Young asked if the difference between a compliance certificate and a certificate of
9 occupancy could be explained under the owners' consideration topic. Ms. Martinez
10 answered that the topic would be addressed under licensing.

11

12 **Session 3: Submittals, Desing and OSHPD Review.**

13 **3.1 HCAI roles and jurisdictions**

14 Mr. Tannahill stated his presentation on OSHPD roles would include:

- 15 • Working with OSHPD, CDPH, and Local Jurisdictions.
- 16 • OSHPD roles and regulations.
- 17 • OSHPD jurisdiction CAN 2-0.
- 18 • Possible OSHPD jurisdiction and responsibilities.
- 19 • Items outside building enclosure subject to OSHPD review.
- 20 • Fire life safety and utilities.
- 21 • Difference between Administrative Code and Building Code.

22

23 **3.2 Geologic hazards**

24 Mr. Lew explained that Session 3 presentation on geologic hazards would include:

- 25 • The geological hazards report which also includes other hazards that are
- 26 earthquake-related, like flood zones, that might affect the usefulness of a
- 27 hospital.
- 28 • A review of the California Geological Survey – Note 48, and geotechnical
- 29 recommendations.
- 30 • Engineering geology requirements.
- 31 • Evaluation of seismology and ground motions.
- 32 • Other hazards/adverse site conditions.

- Report documentation – Ensure that both the geotechnical/geological principals involved in the project have the proper required certifications and registrations.

Mr. Lew highlighted that the Geologist of Record (GOR) and the Geotechnical Engineering of Record (GEOR) should be experienced in requirements with hospitals and schools in California.

3.3 Architects roles and responsibilities.

Mr. Mackey talked about the architect's roles and responsibilities:

- Working with OSHPD staff.
- Geologic Hazards.
- Plan Design and Guidelines – design phase, OSHPD review, and construction.
- Working with local fire authority.
- ADA Compliance incorporated and detailed in projects.
- Referencing Code Application Notices (CANs) and Policy Intent Notices (PINs), calculation specifications and construction documents.
- Collaboration between internal structural engineering team, design team and the project team.
- Plan review process – working with OSHPD as a partner.
- Construction support – dealing with submittals and changes in the project.
- Deferred approvals – minimize deferred approvals.
- QA/QC and TIO.

3.5 MEP Roles and Responsibilities.

Ms. Belair's presentation covered the Mechanical, Electrical and Plumbing (MEP) roles and responsibilities.

- Mechanical Engineer of Record (MEOR).
- Electrical Engineer of Record (EEOR).
- MEP tips – covering the design phase, OSHPD review, construction.
- Ductwork drawings – show rated walls on mechanical ductwork drawings.
- Ventilation tables – organize ventilation tables by Air Handling Unit (AHU).

- 1 • Energy code compliance - provide compliance forms as part of the mechanical
2 and electrical drawings sets.
- 3 • Coordination of essential systems – Consult PIN 70 for coordination of essential
4 systems over current protection devices.
- 5 • NPC-5 emergency water and waste storage- Consult HCAI - Advisory Guide A5
6 – Water Rationing Plan for Hospital Facilities.
- 7 • Remodel projects – importance of CAN 2-102.6.
- 8 • Responding to OSHPD comments/Meeting with OSHPD staff.
- 9 • TIO form.
- 10 • Importance of field visits and working with IOR - Visit the job site on a regular
11 basis and establish a good rapport with field staff and IOR.

12

13 **Session 4: Working with HCAI in the Field.**

14 Mr. LaBrie communicated that Hospital IORs should adopt and adhere to a Code of
15 Ethics that provides high ethical standards to protect the public, the profession, and the
16 state's physical healthcare infrastructure.

17 Mr. LaBrie stated that session 4 would include:

- 18 • IOR duty to the project - Inspectors shall avoid activities that compromise, or
19 appear to compromise, professional independence, objectivity, or inspection
20 integrity.
- 21 • IOR duty to the profession – comply with the laws and regulations and not
22 misrepresent their qualifications.
- 23 • Importance of IOR personal knowledge obtained through continuous inspection.
- 24 • Communication with OSHPD.
- 25 • Importance of daily records.
- 26 • Inspection of changes.
- 27 • Records that should be onsite that the IOR is responsible for.
- 28 • Coordination issues that IORs run into.
- 29 • Preconstruction meetings.
- 30 • HCAI interaction with IOR.
- 31 • TIO – fundamentals of TIO, management of TIO.
- 32 • Working with HCAI office.

1 Ms. Young recommended using updated PINs and CANs in the presentations.

2

3 **Informational and Action item**

- 4 • None

5

6

7 **5. Update on the Small and Rural Hospital Relief Program Introduction Webinar**

8 **Presenter:** Carl Scheuerman, HCAI

9 **Discussion and input**

10 Mr. Scheuerman announced that the Small and Rural Hospital Relief Program webinar,
11 presented by The Office of Health Facilities Loan Insurance within HCAI, was scheduled
12 for October 18, 2023.

13

14 Mr. Scheuerman highlighted that the webinar would cover:

- 15 • The program overview.
16 • Eligibility criteria.
17 • Eligible projects.
18 • Grant application process.

19

20 **Informational and Action item**

- 21 • None.

22

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

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

25 Future Education and Outreach Committee meeting scheduled for November 1, 2023.

26

27 **Discussion and input**

- 28 • None.

29

30 **Informational and Action item**

- 31 • None.

32

1 **7. Adjournment**

2 Mr. Mackey adjourned the meeting on September 27, 2023, at approximately 3:36 p.m.

This page left intentionally blank.



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



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

**Wednesday, November 1, 2023
10:00 a.m. – 4:00 p.m.**

Teleconference Meeting Access:
[HBSB Teams EO Committee](#)
Access Code: 984-529-257

Committee Members Present

Scott Mackey, Chair
Cody Bartley, Vice Chair
Michael Davis
Gary Dunger
Teresa Endres
Bert Hurlbut
Marshall Lew

HCAI Staff Present

Chris Tokas, OSHPD Deputy Director
Arash Altoontash
Hussain Bhatia
Monica Colosi
Mike Hooper
Joe LaBrie
Mia Marvelli
Nanci Timmins
Geoffrey Trautman

Consulting Members Present

Kelly Martinez
Bill Zellmer
Belinda Young

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 November 1, 2023, at
3 10:00 a.m., and Acting HBSB Executive Director, Veronica Yuke called roll.

4

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

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

4

5 Ms. Yuke read the meeting rules and procedures.

6

7 **3. Committee debrief of the HCAI/HBSB 2023 Seminar: California Hospital**
8 **Projects A to Z . . . Tips from the Experts**

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

10 **Discussion and Input**

11 Mr. Mackey stated that in Sacramento, the attendees seemed more engaged in the
12 seminar itself, while in Irvine, there was more emphasis on networking and socializing,
13 but still a good level of engagement with the presentation.

14 Mr. Davis suggested that in future seminars, the presenters try to cover less information
15 and slow down the presentations.

16 He said that there were concerns raised about the narrow time frame for event
17 distribution, as some attendees felt rushed from learning about the event to scheduling
18 their attendance.

19 Mr. Davis suggested that the event venue should have had more accommodation
20 options for attendees, such as the ability to renew the venue or extend the event to a
21 second day to allow for more participants.

22 He also recommended allowing participants to input questions they would like to see
23 covered during an advertised event sign-up in future seminars.

24 Mr. Tokas stated that feedback received from both written comments and discussion
25 were overwhelmingly positive and complimentary and the participants found the
26 seminar to be extremely helpful.

27 Mr. Mackey appreciated that non-HCAI staff presented at the seminar, demonstrating
28 coordination between HCAI and the experts.

29

30 **Informational and Action item**

- 31 • None

32

33 **4. Review the Guide for Working on OSHPD Projects—Tips from the Experts**

34 **Presenter:** Mia Marvelli, HCAI

1 **Discussion and Input**

2 Ms. Marvelli said that there would be an internal team of five to seven OSHPD members
3 and two Education and Outreach committee members to work on polishing the Guide
4 and doing the final review.

5 She explained that the team would review the guide, eliminate redundancy, add figures
6 and figure numbers, and clarify vague language.

7 Ms. Marvelli communicated that the Guide timeline update would be between November
8 2023 and January 2024.

9 Mr. Dunger suggested that the Guide include information about the electronic services
10 portal (eSP) and acknowledge its importance and relevance in the present context.

11 Mr. Mackey asked if the committee would have a chance to review the Guide before
12 publishing it in March 2024. Ms. Marvelli answered that the internal team would work on
13 the Guide and present the preliminary draft in the next committee meeting to get
14 feedback before publishing.

15

16 **5. Update on the Emergency Design Guide**

17 **Presenter:** Gary Dunger and Teresa Endres, Committee Members

18 **Discussion and input**

19 Mr. Tannahill confirmed that the Emergency Design Guide draft was completed, and the
20 final chapters were being formatted and prepared for publication.

21 Ms. Endres said there was a chapter on designing beyond code minimums and
22 chapters 3 and 4 were in the final QC stage.

23 Mr. Tannahill stated that the Guide would be completed between December 2023 and
24 January 2024.

25 **Informational and Action item**

- 26 • None.

27

28 **6. Update on the Policy Intent Notice (PIN) 50 webinar**

29 **Presenter:** Gary Dunger, Committee Members

30 **Discussion and input**

31 Mr. Dunger stated that PIN 50 was still in progress but would be ready for presentation
32 in the next committee meeting.

33

34 **Informational and Action item**

- 35 • None.

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

2 **Presenter:** Cody Bartley, Committee Member

3 **Discussion and input**

4 Mr. Bartley stated that the webinar was in the final stages.

5 Mr. Tokas suggested that the webinar be presented in February 2024.

6 Mr. Mackey asked if the topic would be presented as a webinar or seminar. Mr. Tokas
7 answered that a webinar would be preferable to reach a broader group of audience in
8 other states.

9
10 **Informational and Action item**

- 11 • None.

12
13 **8. Comments from the public/committee members on issues not on this agenda**

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

15
16 **Discussion and input**

17 Ms. Martinez asked when the committee will discuss topics that might be added for
18 upcoming webinars. Ms. Yuke answered that she would be meeting Ms. Belair, chair of
19 HBSB, to discuss the upcoming meeting agendas for 2024.

20 Topics suggested for 2024 upcoming webinars were:

- 21 • Difficulties faced in hospitals regarding the classification of imaging procedures
22 into Class 1, 2, and 3 and the associated regulations.
- 23 • Revisiting the inspect-to-pass approach and mentality.
- 24 • OSHPD 6 and educational materials to handle it.
- 25 • Title 22, regulations related to Acuity Adaptable spaces.
- 26 • Tips on how to work with OSHPD in the field.
- 27 • Solar photovoltaic, battery systems, and fire alarms.
- 28 • How to write a functional program in the correct way to make it easy for the
29 California Department of Public Health (CDPH) to approve.

30
31 **Informational and Action item**

- 32 • None.

1 **9. Adjournment**

2 Mr. Mackey adjourned the meeting on November 1, 2023, at approximately 11:37 a.m.

This page left intentionally blank.

Codes and Processes Committee

Draft Meeting Report/Minutes

August 14, 2023
October 17, 2023

This page left intentionally blank.



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



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

**Monday, August 14, 2023
10:00 a.m. – 4:00 p.m.**

Teleconference Meeting Access:
[HBSB Teams CAP Committee](#)
Access Code: 677-065-770

Committee Members Present

Michael O’Connor, Committee Chair
Jim Malley, Vice Chair
Cody Bartley
Scott Jackson
Scott Mackey

Consulting Members Present

Mark Hershberg
Kelly Martinez

HBSB Staff Present

Will Owen
Evelt Torres

HCAI Staff Present

Chris Tokas
Arash Altoontash
Richard Tannahill
Brett Beekman
Larry Enright
Mike Hooper
Roy Lobo
Mia Marvelli
Diana Navarro
Carl Scheuermann
Jamie Schnick
Nanci Timmins
John Gray

1 **1. Call to Order and Welcome**

2 Michael O’Connor, Committee Chair, called the meeting to order on August 14, 2023, at
3 10:00 a.m., and Acting Executive Director Will Owen called roll.

4

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

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

4
5 Mr. Owen read the public announcement regarding COVID-19, meeting rules and
6 procedures.

7
8 **3. Review and approve the draft May 9, 2023, meeting report/minutes**

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

10
11 **Discussion and Input**

12 Mr. O'Connor gave a brief review of the May 4, 2023, meeting.

13
14 Mr. O'Connor noted a correction on page 3 of 5, where there was a contradiction
15 between line 3 and line 5, line 5 had to be stricken because the California amendments
16 for hospital microgrids were removed.

17
18 **MOTION: [Malley/Bartley]**

19 The committee unanimously voted to approve the May 9, 2023, meeting reports/minutes
20 as amended.

21
22 **Informational and Action item**

- 23 • None

24
25 **4. California Building Standard Code Revision for the 2022 Intervening Code**
26 **Cycle**

27 **Presenter:** Richard Tannahill, HCAI

28
29 **Discussion and Input**

30
31 Ms. Marvelli stated that the California Building Standard Commission (CBSC) approved
32 all proposed HCAI code changes during their meetings in June and August, 2023.

33
34 Ms. Marvelli provided the following due dates: February 2024 for mechanical and
35 plumbing code, and May 2024 for all other submittals.

36
37 Ms. Marvelli mentioned that a coordinating council meeting was scheduled by the CBSC
38 on September 28, 2023.

39

1 Mr. Schnick gave the California Electrical Code (CEC) 2024 Code Cycle Triennial
2 updates:

- 3 • Article 517 amended definitions relocated to Article 100
 - 4 ▪ Microgrid, Health Care (Health Care Microgrid systems)
 - 5 ▪ Oxygen-generating devices
 - 6 ▪ Added text definitions for clarity for category 1 and category 2 patient bed
 - 7 space.
- 8 • Article 89
 - 9 ○ General text revision; the word “health” replaced by “hospital” throughout.
 - 10 ▪ Added in the OSHPD 6 designation for chemical dependency and
 - 11 recovery hospital buildings.
- 12 • New Articles added: 235, 245, 305, 315, 495, 355, 369, article 371, 512, 722,
- 13 724, and 726.
- 14 • Article 220 Branch-Circuit, Feeder, and Service Load Calculations – OSHPD
- 15 amendments removed as model code added some demand factors.
- 16 • Article 406 Receptacles in Damp or Wet Locations – addition of a new
- 17 requirement for section of 210.52 which is specific to residential.
- 18 • 517.1 – clarification for documentation required for specific seismic certification.
 - 19 ▪ 517.4 Feeders and Services – new section added stating that one source
 - 20 or set of sources shall be sized to supply the entire healthcare facility and
 - 21 shall be permitted to be located on-site or off-site.
 - 22 ▪ 517.10 Applicability – “Not adopted by OSHPD,” to be removed.
 - 23 ▪ 517.12 Wiring methods – Relocate OSHPD section that prohibits panels in
 - 24 patient care rooms from 517.12(A) to 517.7, moving out of part II.
 - 25 ▪ 517.18 Category 2 spaces – exception number 3 not applicable.
 - 26 ▪ 517.22 (OSHPD 1, 2, 3, 4 & 5) Artificial Lighting– Renumbering to
 - 27 coordinate with NFPA 70 and move out of part II
 - 28 ▪ 517.24 (OSHPD 1, 2, 3, 4 & 5) Mobile Medical Facilities – Renumbering to
 - 29 move out of part II
 - 30 ▪ 517.30 Sources of Power – language change to adopt all forms of onsite
 - 31 power generation.
 - 32 ▪ 517.31 Requirements for Essential Electrical System – Delete
 - 33 unnecessary OSHPD Amendments.

- 1 ▪ 517.41 Requirements Power Sources – OSHPD Amendment to replace
- 2 NFPA 70 language.
- 3 ▪ 517.44 Connection to Equipment Branch – corrected typo that said critical
- 4 to equipment.
- 5 ▪ 517.45 Essential Electrical Systems for Other Health Care Facilities –
- 6 Delete previous OSHPD revisions that required an emergency generator
- 7 for Ambulatory Surgical Clinics.
- 8 ▪ 517.63 Grounded Power Systems in Anesthetizing Locations – Added
- 9 requirement for light fixtures in anesthetizing locations (including ORs) to
- 10 have 90 minute battery back-up to match NFPA 99 requirements.
- 11 ▪ 517.80 Patient Care Spaces – clarified that other than life safety loads, if
- 12 Power over Ethernet lighting is utilized, that wiring does not need to be
- 13 mechanically protected.
- 14 • Article 700.12 General Requirements – getting rid of the fuel storage that was in
- 15 700 because it was relocated to 517.

16 Mr. O'Connor asked if HCAI could factor in solar energy to reduce fuel requirements by
17 calculating the value of solar energy with backup power. Mr. Schnick said they could
18 use the emergency power because the code allows for prudent demand factors.

19
20 Mr. Mackey asked about the status and timeline for final coordination approvals with the
21 State Fire Marshal. Mr. Schnick said he would be collaborating with the State Fire
22 Marshal until February 2024.

23
24

25 **MOTION: [Bartley/Jackson]**

26 The committee unanimously voted to accept the proposed amendments to the Electrical
27 Code for the 2024 code cycle.

28

29 **Informational and Action item**

- 30 • None

31
32

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

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

35

36 Future Codes and Processes Committee meeting is scheduled for October 17, 2023.

37
38

1 **Discussion and input**

- 2 • None

3

4 **6. Adjournment**

5 Mr. O'Connor adjourned the meeting on August 14, 2023, at approximately 10:58 a.m.

This page left intentionally blank.



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



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

**Tuesday, October 17, 2023
10:00 a.m. – 4:00 p.m.**

Teleconference Meeting Access:

[HBSB Teams CAP Committee](#)

Access Code: 479-530-933

Committee Members Present

Michael O’Connor, Chair
Jim Malley, Vice Chair
Cody Bartley
Louise Belair
Gary Dunger
Teresa Endres
Scott Mackey

Consulting Members Present

Kelly Martinez
Belinda Young

HCAI Staff Present

Richard Tannahill
Brett Beekman
Larry Enright
Mike Hooper
Joe LaBrie
Roy Lobo
Mia Marvelli
Diana Navarro
Carl Scheuermann
Nanci Timmins
John Gray

HBSB Staff Present

Veronica Yuke, Acting Executive Director
Marcus Palmer
Evet Torres

1. Call to Order and Welcome

Michael O’Connor, Committee Chair, called the meeting to order on October 17, 2023,
at 10:00 a.m., and Acting HBSB Executive Director Veronica Yuke called roll.

4

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

2 Nine members of the Committee present constitute a quorum. There being nine present
3 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 August 14, 2023, meeting report/minutes**

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

9

10 **Discussion and Input**

11 Mr. O'Connor reviewed the August 14, 2023, meeting report.

12

13 **MOTION: [Mackey/Endres]**

14 The committee unanimously voted to accept and approve the August 14, 2023, meeting
15 reports/minutes.

16

17 **Informational and Action item**

- 18 • None

19

20 **4. Building Standards Code Cycles**

21 **Presenter:** Mia Marvelli, HCAI

22

23 **Discussion and Input**

24 Ms. Marvelli said that the 2022 California Building Standard Code, Title 24 Supplement,
25 was at the proofing stage.

26

27 She communicated that on October 24, 2023, the Code Adoption Committee would
28 nominate the Code Advisory Committee (CAC) members.

29

30 Ms. Marvelli gave a timeline for the 2024 Triennial Code Adoption Cycle, stating that
31 there were two mandatory due dates to the Building Standards Commission:

- 32 • Feb 2024- submission of the California Mechanical Code (CMC), California
33 Plumbing Code (CPC), and adoption of 2024 Mechanical and Uniform Plumbing
34 Codes.
- 35 • May 2024 – submission of the California Administrative Code (CAC), California
36 Building Code (CBC) vol. 1 & 2, and the California Existing Building Code
37 (CEBC).

1 She gave a breakdown of OSHPD timeline and HBSB future meeting schedules as
2 follows:

- 3 • Early January 2024 – Codes and Processes (CAP) Committee meeting to
4 present future code changes.
- 5 • February or March 2024 – CAP committee meeting to discuss any administrative
6 code and any building code changes to volume 1.
- 7 • April 2024 – present the code changes at the HBSB full board meeting.

8

9 Ms. Marvelli talked about the California Building Standards Commission (CBSC) Code
10 Advisory Committee meetings scheduled for 2024:

- 11 • March 25-26 – Plumbing, Electrical, Mechanical, and Energy (PEME)
- 12 • July 16-17 – Structural design lateral forces CAC, CBC Vol. 2, CEBC
- 13 • July 30 – health facility meeting to present chapter 12 code changes
- 14 • 45-day Public Comment Periods
- 15 • December 14-15 – CBSC adoption meeting
- 16 • January 18-20, 2025 – CBSC adoption meeting

17

18 Ms. Marvelli stated that petition P-02-23 requested proposed code changes that would
19 allow Fire Protection Engineers to sign and submit documents and reports within their
20 field of expertise.

21

22 Mr. Enright talked about the California Mechanical Code Part 4 of Title 24 proposed
23 code changes:

- 24 • Coordinate OSHPD amendments with the ASHRAE 170, 2021 edition - The
25 current version of the CMC follows the guidelines provided in the 2013 edition of
26 ASHRAE 170.
- 27 • Revise CMC Table 4-A with ASHRAE 170-2021 - In the 2021 edition, Table 7.1
28 has been split into Tables 7.1, 8.1, and 9.1 to separate Hospital, Outpatient, and
29 Residential.
- 30 • Add essential power to cooling systems to align with federal requirements -
31 NPC5 requires a facility with minimum cooling for category 1 spaces to remain
32 operational for 72 hours.
- 33 • Exhaust discharge height for hazardous exhaust to meet national standard -
34 CMC amendments only specify discharge height for AIIR and HD compounding

- 1 exhaust, but ASHRAE 170 requires additional functions to have a minimum
2 discharge height.
- 3 • Recirculating unit minimum filtration to meet national standard - ASHRAE 170-
4 2021 mandates MERV 8 filtration minimum.
 - 5 • Variable Air Volume (VAV) system - return VAV for sensitive spaces to maintain
6 pressure relationships - CMC 407.5.1 no longer requires VAV for all sensitive
7 spaces, only for those with pressure relationships.
 - 8 • Update CMC Chapter 4 requirements for class 1, 2 and 3 imaging - several CMC
9 amendments were made to coordinate with imaging classification, including
10 diffuser placement, ventilation, and filtration guidelines.
 - 11 • Additional changes for coordination and cleanup.

12

13 Mr. Enright gave an overview of the California Plumbing Code, Part 5 of Title 24
14 proposed code changes:

- 15 • Plumbing fixture Table 4-2 for non-healthcare spaces under OSHPD - the
16 Intervening cycle provided Table 4-2 for single reference for fixture count.
- 17 • Revise maximum hot water branch length for low flow fixtures and limit sensor-
18 operated faucets in high-risk area (legionella) - CPC 613.6 limits hot water
19 branch to 25ft. Low flow faucets do not evacuate volume, reduced lengths or
20 diameters may be considered.
- 21 • Piping materials for process water - processing water is typically at a pH not
22 suitable for metallic pipes.
- 23 • Hot water maximum temperature – legionella risk - facilities requested higher
24 water temperatures to limit legionella growth and reduce the risk of scalding from
25 hot water.
- 26 • Scrub sink control requirements - Revision is required to clarify the requirements
27 for scrub sink controls distributed throughout the CPC.
- 28 • Allow single restroom for low occupancy spaces such as waiting - new exception
29 specific to healthcare for public counts will be provided under CPC422.3.1.
- 30 • Coordinate Chapter 13 requirements for OSHPD - Due to adoption cycles, the
31 state adopts a newer version of NFPA 99 for med gas than is adopted under the
32 model code.
- 33 • Additional changes for coordination and cleanup.

34

35 Mr. Tannahill asked if the March 25-26, 2024, meeting would discuss any changes to
36 the electrical code made by CAC. Ms. Marvelli answered that the CAC would review
37 code changes at that meeting.

1 Ms. Belair asked if the coordination with ASHRAE 170 on adoption or referencing 2012
2 edition could be left open so that the current edition is referenced. Ms. Marvelli
3 answered that when making proposed code requirements changes, the document must
4 have a list of the year of reference standard for review.

5 Ms. Belair asked what the essential power for cooling was to meet the NPC 5, 72-hour
6 requirement. Mr. Enright answered that there was a collaboration with the California
7 Department of Public Health (CDPH) to determine that.

8

9 **Informational and Action item**

- 10 • None
11

12 **5. Update on Electronic Test, Inspection, and Observation (eTIO) Development**

13 **Presenter:** Joe LaBrie, HCAI
14

15 **Discussion and Input**

16 Mr. LaBrie updated that the eTIO was in the programming coding stage.

17 Mr. Mackey asked if the programming aspect of funding for the eTIO was resolved.

18 Mr. Tannahill answered that there were enough funds left in the existing contract to
19 continue the program.

20 Mr. Mackey asked about the eTIO development deadline. Mr. Tannahill answered that
21 the deadline would be the summer of 2024.

22

23 **Informational and Action item**

- 24 • None
25

26 **6. Pre-Approved Detail Update**

27 **Presenter:** Gary Dunger, Committee Member
28

29 **Discussion and Input**

30 Mr. Dunger updated that there was a task force to identify and put together some
31 common issues to type 5 contracts of Skilled Nursing Facilities (SNFs) and hospitals.

32 Mr. Dunger stated that the pre-approved details were developed to identify areas of
33 concern and challenges and would be presented at the next board meeting.

34

35 **Informational and Action item**

- 36 • None
37

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

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

3

4

5 **Discussion and input**

- 6 • None

7

8 **8. Adjournment**

9 Mr. O'Connor adjourned the meeting on October 17, 2023, at approximately 10:55 a.m.

Instrumentation Committee

Draft Meeting Report/Minutes

October 26, 2023

This page left intentionally blank.



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



**HOSPITAL BUILDING SAFETY BOARD
Instrumentation Committee**

**Thursday, October 26, 2023
10:00 a.m. – 4:00 p.m.**

**Teleconference Meeting Access:
[HBSB Teams Instrumentation Committee](#)
Access Code: 271-646-402**

Committee Members Present

Marshall Lew, Chair
Jim Malley
Farzad Naeim
Jennifer Thornburg

HCAI Staff Present

Chris Tokas
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 Marshall Lew, Committee Chair, called the meeting to order on October 26, 2023, at
3 10:00 a.m., and Acting HBSB Executive Director, Veronica called roll.

4

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

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

1 Ms. Yuke read the meeting rules and procedures.

2

3 **3. Review of the Fiscal Year 2022-23 HCAI/CSMIP Hospital Instrumentation**
4 **Annual Report by the California Strong Motion Instrumentation Program**
5 **(CSMIP)**

6 **Presenter:** Hamid Haddadi, Consulting Member

7 Mr. Haddadi outlined the milestones for instrumenting hospitals, which included a kickoff
8 meeting with HCAI, California Geological Survey (CGS), and a structural engineer for
9 sensory layout; obtaining approval from HCAI for the layout along with preparation of a
10 Technical Specification Letter (TSL); then a site visit for sensory marking; and ultimately
11 completing the project instrumentation.

12

13 Mr. Haddadi stated that there were three types of instrumentation projects:

- 14 • Type 1 - HCAI-Funded regular instrumentation of hospitals
- 15 • Types 2 - Owner-funded instrumentation of new hospitals with CSMIP guidance
16 and assistance.
- 17 • Types 3 - Owner-funded instrumentation of retrofitted existing hospitals with
18 CSMIP guidance and assistance.

19

20 Mr. Haddadi reported that for the fiscal year 2022/2023, there were 19 earthquakes with
21 a magnitude of 3 or larger that were reported at instrumented hospitals.

22 He stated that the last contract was initiated on March 20, 2020, and due to the
23 pandemic challenges faced, \$260,000 from the budget was reverted, and so \$160,000
24 was amended to the contract and was used for the project completion.

25 Mr. Haddadi reviewed the statewide strong motion instrumentation update, stating that:

- 26 • Out of 805 outpatients, 67 were either a hospital or ground stations associated
27 with hospitals.
- 28 • Seventy-three hospital buildings needed re-instrumentation, and out of those four
29 are under OSHPD review.
- 30 • Hospital buildings with Strong-Motion Seismic Accelerograph recorders (SSA)
31 totaled 190, 38 being OSHPD hospitals, needed an upgrade.

32

33 Mr. Lew proposed discussing the possibility of using lower-cost MEMS to expand the
34 instrumentation of more buildings, in the next committee meeting.

35 Mr. Haddadi reported that the system for ground station monitoring was complete, with
36 approximately 250 stations integrated into the real-time system.

1 Mr. Kalkan asked about the latency of getting data directly from the system instead of
2 digitizing it at the hospital. Mr. Haddadi answered that the latency would be minimal,
3 less than a second, as the system supports an early warning, preventing significant
4 delays.

5

6 **Discussion and Input**

- 7 • None

8

9 **Informational and Action item**

- 10 • None

11

12 **4. Annual update to the Committee regarding CSMIP**

13 **Presenter:** Erol Kalkan, HCAI

14 **Discussion and Input**

15 Mr. Kalkan highlighted that the California Building Code (CBC) required instrumentation
16 for new hospital buildings that are owner-funded, and these buildings were approved
17 through Alternate Means of Compliance for the Lateral Force Resisting System, seismic
18 isolation, and Damping systems.

19 Mr. Kalkan stated the criteria for HBSB Building Instrumentation Selection:

- 20 • Proximity to fault capable of generating earthquake magnitudes larger than 6.5
21 and sites with high probability of seismic events.
- 22 • Non-standard structural systems.
- 23 • Adjacent to other buildings with pounding probability.
- 24 • Buildings with irregularities to put seismic sensors.
- 25 • Tall inter-story heights to monitor the amount of drift during strong earthquakes.
- 26 • Seismically retrofitted buildings, SPC-4D.
- 27 • Soil type.
- 28 • Lack of instrumented buildings in the geographic area.

29 Mr. Kalkan reported on the parameters used by Lateral Seismic Resisting Systems in
30 Hospitals, which are instrumentation required by owner:

- 31 • Structures with Passive Energy Dissipation Systems
- 32 • Structures with Seismic Isolation Systems

1 • Other structures of conventional Lateral Force Resisting Systems with alternate
2 methods of compliance.

3 • Structures with lateral system not listed in ASCE 7 Table 12.2-1.

4 Mr. Kalkan stated that 85 hospitals were instrumented with help from CSMIP.

5 He also talked about the HCAI-funded instrumentation projects that were completed:

- 6 • Miller Children's Hospital, Long Beach.
- 7 • Presbyterian Intercommunity Hospital, Whittier.
- 8 • Santa Clara Valley Hospital, San Jose.

9 Mr. Kalkan reported on the completed owner-funded instrumentation projects:

- 10 • Kaiser Hospital Tower expansion, Downey.
- 11 • Marin General Hospital, Greenbrae.
- 12 • St. Bernardine Hospital, San Bernardino.

13 Mr. Kalkan specified owner-funded instrumentation projects, underway:

- 14 • University Medical Center, Loma Linda.
- 15 • Hollywood Presbyterian, Los Angeles.
- 16 • Marina Del Rey Cedars-Sinai Medical Center.
- 17 • Scripps Tower II, La Jolla.
- 18 • Sharp Metropolitan MC, San Diego.
- 19 • UC Irvine Medical Center New Hospital, Irvine.
- 20 • UC Davis Health New Hospital, Sacramento.
- 21 • Scripps Mercy Tower, San Diego.
- 22 • UCLA Medical Center Replacement Project (Inpatient Tower)
- 23 • UCSF Parnassus (Acute care hospital), San Francisco.
- 24 • Cedars Sinai (Patient Tower), Los Angeles.

25 Mr. Kalkan stated that there was a real-time collection of data from the Santa Rosa
26 hospital, primarily focusing on the backend processes using developed algorithms for
27 post-processing seismic events, particularly earthquakes.

28 He noted that the post-earthquake seismic data assessment report contains:

- 29 • Waveform plots.
- 30 • Response spectra plots.
- 31 • Spectrograms and holograms.

- 1 • Fast Fourier Transform (FFT) and Power Spectral Density (PSD) plots.
- 2 • Horizontal-to-vertical spectral ratio plots and statistical graphs that can track
- 3 changes in the predominant site frequency following seismic events.

4 Mr. Kalkan highlighted that there were efforts to create a basic summary report on the
5 data assessment for non-technical users, such as building management in hospitals.

6 He stated that there were only two seismic instrumented wood-frame hospital buildings,
7 which are John F. Kennedy Memorial Hospital and Tenet Health Central Coast Twin
8 Cities Community Hospital.

9 Mr. Kalkan gave the criteria for the wood-frame instrumentation projects:

- 10 • Year build- new versus old buildings.
- 11 • Small versus large facilities.
- 12 • Facilities that are in a high seismic region.
- 13 • Facilities structural system SPC-2, or SPC-4D, or SPC-5.
- 14 • Location – buildings in Central, Northern and Southern California.
- 15 • Whether to instrument more building with less sensors or less buildings with
16 more dense sensor arrays.

17 Mr. Lew suggested the possibility of co-locating high-resolution equipment with lower-
18 cost CSN-type instrumentation within the same building to gather more comprehensive
19 information by instrumenting more buildings, achieve a wider geometric spread, and
20 expedite the process of acquiring data.

21 Mr. Kalkan stated that Network Timing Protocol (NTP) was used to synchronize digital
22 sensors across various locations in wood frame structures.

23 Mr. Tokas mentioned that there would be a compiled list detailing buildings and their
24 distinct features and suggested geographic placements to prioritize earthquake-prone
25 areas to be presented and deliberated in the next meeting.

26 Mr. Haddadi asked whether the initial step of obtaining earthquake details followed
27 waveform extraction or continuous waveform monitoring. Mr. Kalkan answered that
28 when an earthquake occurs, the process entailed manually acquiring data from the
29 CSMD website and integrating it with metadata to gain a comprehensive understanding
30 of the earthquake event.

31 Mr. Malley asked how many new wood-frame hospital buildings were being built.

32 Mr. Sumer answered that there were a good amount of new wood-frame buildings that
33 were coming up.

34 Mr. Lew asked how the wood-framed buildings were doing on the NPC ratings.

35 Mr. Sumer answered that the NPC requirements were the same across the board.

1 Mr. Kalkan asked about the feasibility of easy comparison between low-cost and high-
2 resolution sensors by conducting tests on a shake table at different frequencies.
3 Mr. Haddadi answered that there was a pilot project underway that aimed to test both
4 high and low-resolution sensors.

5

6 **MOTION: [Malley/Thornburg]**

7 The committee unanimously voted to approve the San Jose Kaiser for HCAI-OSHPD
8 instrumentation.

9

10 **Informational and Action item**

- 11 • None

12

13

14 **5. Finalization of the white paper on “The Benefits of Strong-Motion**
15 **Instrumentation in Hospital Facilities”**

16 **Presenter:** Marshall Lew, Committee Chair, and Farzad Naeim

17 **Discussion and input**

18 Mr. Tokas stated that the white paper was ready for publication.

19

20

21

22 **MOTION: [Malley/Haddadi]**

23 The committee unanimously voted to approve the final white paper on November 7th,
24 2022, on “The Benefits of Strong Motion Instrumentation in Hospital Facilities.”

25

26 **Informational and Action item**

- 27 • None.

28

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

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

31

32 **Discussion and input**

33 Mr. Lew stated that there would be an instrumentation committee meeting planned for
34 the first quarter of next year to discuss the issues regarding the instrumentation of
35 wood-framed hospital buildings.

36

1 **Informational and Action item**

- 2 • None.

3

4 **7. Adjournment**

5 Mr. Lew adjourned the meeting on October 26, 2023, at approximately 12:28 p.m.

This page left intentionally blank.

Structural and Nonstructural Regulations Committee

Draft Meeting Report/Minutes

November 7, 2023



This page left intentionally blank.



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



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

**Tuesday, November 7, 2023
10:00 a.m. – 4:00 p.m.**

Teleconference Meeting Access:

[HBSB Teams SNSR Committee](#)

Access Code: 712-104-730

Committee Members Present

Jim Malley, Chair
Cody Bartley
Michael Davis
Marshall Lew
Jennifer Thornburg

HCAI Staff Present

Richard Tannahill
Joe LaBrie
Roy Lobo
Mia Marvelli
Carl Scheuerman
Ali Sumer
Asha Jennings

Consulting Member Present

Mark Hershberg

HBSB Staff Present

Veronica Yuke, Acting Executive Director
Marcus Palmer
Evet Torres

1 **1. Welcome and introductions**

2 Jim Malley, Committee Chair, called the meeting to order on November 7, 2023, at
3 10:00 a.m., and Acting HBSB Executive Director, Veronica Yuke called roll.

4

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

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

1 Ms. Yuke read the meeting rules and procedures.

2

3 **3. Proposed amendments to the 2025 California Building Code (CBC), Title 24,**
4 **Part 1**

5 **Presenter:** Ali Sumer, HCAI

6 **Discussion and Input**

7 Ms. Marvelli gave a timeline for the code amendments:

- 8 • 2022 Intervening Code Adoption Cycle – Title 24 Supplement was scheduled for
9 publication on January 2024 and effective July 2024.
- 10 • 2025 edition of Title 24 – February 2024, submitting to California Building
11 Standard Commission (CBSC), Mechanical Code, Plumbing Code, and Electrical
12 Code; and May 2024, California Administrative Code (CAC) and Volume 1 and 2
13 California Building Code changes (CBC) and California Existing Building Code
14 changes (CEBC).

15 Ms. Marvelli highlighted the OSHPD timeline and HBSB meeting schedule:

- 16 • January 2024 – Codes and Processes Committee meeting for Mechanical and
17 Plumbing codes.
- 18 • February/March 2024 – Codes and Processes Committee meeting for CBC
19 Volume 1, and Structural and Nonstructural Regulations Committee meeting for
20 CBC Volume 2 and CEBC.
- 21 • April 2024 – HBSB Board meeting.
- 22 • May 2024 – submit to the CBSC.

23

24 Mr. Sumer stated the proposed amendments to the 2025 California Administrative
25 Code, Title 24, Part 1, Chapter 6:

- 26 • Delay in compliance in Seismic Design Category (SDC) F NPC deadlines
27 matching SDC D deadlines.
- 28 • NPC evaluation deadlines and requirements for buildings removed from service –
29 compliance plan update/ change notification.
- 30 • Testing requirements for existing anchors under tension and/or shear loading_
31 testing requirements for evaluating the performance of existing mechanical
32 fasteners.
- 33 • Deletion of language related to past SPC-1 extensions – clean up past legislation
34 requirements.

- 1 • Clarification of requirement to the NPC-4D operation plan Article 11.2.3(f) –
2 reduction on existing drawings.

3

4 **Informational and Action item**

- 5 • None

6

7 **4. Proposed amendments to the 2025 CBC, Title 24, Part 2**

8 **Presenter:** Roy Lobo, Emil Von Roth, and Ali Sumer, HCAI

9 **Discussion and Input**

10 Mr. Lobo stated the proposed amendments to the 2025 CBC, Title 24, Part 2:

- 11 • Adoption of ASCE 7-22
- 12 • Chapter 16A:
- 13 ▪ Deleted early adoption items in CBC Chapter 16A, which are now included in
 - 14 ASCE 7-22.
 - 15 ▪ Added proposed amendments for wind tunnel testing.
 - 16 ▪ Permitted use of screw anchors when qualified for exterior use for building
 - 17 enclosures.
 - 18 ▪ Deleted the exception of five pounds per foot for distribution systems.
 - 19 ▪ Requirement for design criteria and peer review/witness when wind tunnel
 - 20 tests are used in lieu of ASCE 7 wind design loads.
 - 21 ▪ Added requirements for the operation of elevator switches that get tripped
 - 22 post-seismic event.
 - 23 ▪ Proposed revision amendment to aluminum ceiling systems.
- 24 • Chapter 19 A:
- 25 ▪ Added proposed amendments, testing of screw anchors.
 - 26 ▪ Added requirements for concrete strengthening by externally bonded fiber-
 - 27 reinforced polymer.

28 Mr. Roth said that the American Society for Testing and Materials (ASTM) C635
29 covered aluminum ceilings under vertical loads but lacked specific provisions for
30 combined vertical and seismic loads.

31 Mr. Malley asked whether any testing had been conducted on the two-foot center, or if
32 decisions were solely based on engineering judgment. Mr. Roth answered that following
33 prescriptive requirements, it was important to select a grid that ensured no concerns
34 about the structural integrity of the system.

1 Mr. Lew asked for the typical size of the ceiling tiles. Mr. Roth answered that ceiling tiles
2 were typically two feet by two feet.

3

4 **Informational and Action item**

- 5 • None

6

7

8 **5. Proposed amendments to the 2025 CBC, Title 24, Part 10**

9 **Presenter:** Ali Sumer, HCAI

10 **Discussion and input**

11 Mr. Sumer stated the proposed amendments to the 2025 California Existing Building
12 Code, Title 24, Part 10:

- 13 • Amended ASCE 41 for wood shear wall, hold-down criteria using ASCE 41
14 Chapter 7, for buildings being upgraded to SPC-4D.
- 15 • NPC 4D supplying utilities to conforming buildings downstream - buildings and
16 tunnels with an OSHPD-approved NPC 4D Level 1, 2, or 3 rating supplying
17 services/systems and utilities to conforming buildings downstream.

18 Mr. Malley asked if ASCE 41 addressed concerns about inconsistencies between the
19 commentary and the provisions. Mr. Sumer answered that he was not aware of added
20 clarifications.

21

22 **MOTION: [Lew/Davis]**

23 The committee unanimously voted to approve the proposed amendments to the 2025
24 CBS, Title 24, Part 1, 2, and 10.

25

26 **Informational and Action item**

- 27 • None.

28

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

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

31

32 **Discussion and input**

- 33 • None.

34

1 **Informational and Action item**

- 2 • None.

3

4 **7. Adjournment**

5 Mr. Malley adjourned the meeting on November 7, 2023, at approximately 11:55 a.m.

This page left intentionally blank.

Ad hoc Board Procedures Committee

Policies and Procedures
of the Hospital Building Safety Board

CURRENT VERSION
January 2022

This page left intentionally blank.

Policies and Procedures
of the
Hospital Building Safety Board

January 2022

I. Introduction

The purpose of this document is to provide information regarding the policies and procedures under which the Hospital Building Safety Board (Board) performs its functions and duties.

II. Hospital Building Safety Board

The Board was statutorily created in 1973 (Senate Bill 519 - Alquist - Chapter 1130, Statutes of 1972). Subsequently, Senate Bill 961 (Chapter 303, Statutes of 1982) reauthorized the Board. In January 1994, Senate Bill 785 (Chapter 260, Statutes of 1993) significantly changed the composition and duties of the Board, and also changed the name of the Board to the Hospital Building Safety Board. The governing provisions are contained in Health and Safety (H&S) Code, Division 107, Part 7, Chapter 1, Article 5, Sections 129925 through 129960 and the State Building Standards Code, Part I, Title 24, CCR, Article 5, Sections 7-159 through 7-171.

III. Objectives of the Hospital Building Safety Board

In accordance with H&S Code, Section 129925 of the Health and Safety Code, the Board advises the Director of the Department of Health Care Access and Information (HCAI) and acts as the Appeals Board in all matters relating to the administration and enforcement of building standards relating to the design, construction, alteration, and seismic safety of health facility projects submitted to HCAI. The Board also acts as the Appeals Board in matters relating to all fire and panic safety regulations and alternate means of protection determinations for health facility projects submitted to HCAI.

Board Members serve the people of California, and as such their role includes their commitment for full participation in the Board's activities. The Board maintains continuing contact with professional groups and certain industry organizations through its committees. In this manner, the Board maintains an awareness of state-of-the-art knowledge of seismic structural theory and application, architectural, mechanical, geological, seismological, electrical, fire safety theory and application,

and of requirements for the disabled with regard to those health facilities constructed under the jurisdiction of HCAI.

All actions of the Board shall be transmitted in writing, on a regular basis, to the Director of HCAI.

In accordance with the Government Code, Chapter 13, Section 8870.95 of the Seismic Safety Commission Act, the Board shall produce an annual report addressed to the Seismic Safety Commission summarizing the year's accomplishments, studies, and appeals, as well as listing future goals and direction.

IV. Executive Director

- A. In accordance with H&S Code, Section 129950, the Board shall be served by an Executive Director, who shall be a member of the HCAI staff.
- B. The Chair and Executive Director are authorized spokespersons for the Board. Only appointed Board members may speak on behalf of the Board upon authorization by the Chair or Executive Director.

V. Board Members - Membership and Responsibilities

- A. The Director of HCAI appoints members of the Board. When requested by the Director, prospective nominees will be interviewed by the Chair of the Board or Vice-Chair of the Board and the Executive Director. The Board consists of appointed members and six statutory ex-officio members.
 - 1) The statutory ex-officio members include the Director of HCAI, the State Fire Marshal, the State Geologist, the Executive Director of the California Building Standards Commission, the Director of the Department of Public Health, and the Deputy Director of the Facilities Development Division of HCAI, or their officially designated representatives.
 - 2) The appointive members are as follows: two structural engineers, two architects, one engineering geologist, one geotechnical engineer, one mechanical engineer, one electrical engineer, one hospital facilities manager, one local building official, one general contractor, one fire/life safety representative, one hospital inspector of record, and three public members.
 - 3) The Director of HCAI may also, with the advice of the chair, appoint up to three additional ex-officio members.

- B. Appointive members, except for the public members, shall be qualified by close connection with hospital design and construction and highly knowledgeable in their respective fields with particular reference to seismic safety. Appointive members shall be appointed from nominees recommended by the governing bodies of California based professional organizations that represent appointive members as specified in Section 129930 including but not limited to: the Structural Engineers Association of California; the American Institute of Architects (California Council); the Earthquake Engineering Research Institute; the Association of Engineering Geologists; the American Council of Engineering Companies; the California Association of Local Building Officials; the American Society for Heating, Refrigerating, and Air-Conditioning, Inc.; the California Hospital Association; the Associated General Contractors of California; the American Construction Inspectors Association; and the California Fire Chiefs Association.
- C. Director appointed ex-officio members shall provide additional technical expertise to the Board. These members can participate and vote on issues during committee meetings.
- D. Although members are selected from nominees submitted by those nominating organizations listed above, no position on the Board is necessarily connected to any particular nominating organization. Board members are appointed to represent the various technical/specialty membership categories and not any specific organization.
- E. Board members shall be residents of California.
- F. The appointed members of the Board serve four-year terms and none shall serve as a member of the Board for more than two consecutive terms. Members with expired terms continue to serve until replaced or until one year has elapsed since the expiration of their term, whichever occurs first.
- G. Delegates Only ex-officio Board members who represent state government may appoint delegates. Such delegates shall only have committee voting privileges. The name of the delegate must be provided in writing to the Chair of the Board and the Executive Director prior to the delegate's participation on the Board.
- H. Resignation When a member resigns from the Board, the member shall send a letter of resignation to the Director of HCAI, noting the effective date of the resignation. A copy of the letter shall be sent to the Chair of the Board and the Executive Director. In the event of a resignation, death, or removal of any member by the Director of HCAI, the Director will appoint a new member to fill the vacancy in accordance with V (D) above and a new term will begin at the time of the appointment.

- I. The Director may terminate any member's appointment for neglect of duty or other just cause.
- J. Attendance - Members shall attend meetings of the Board, serve on committees and perform other functions as assigned by the Chair. If a member is unable to attend Board or assigned Committee Meetings, the member must contact the Board's Executive Director at least 48 hours prior to the scheduled meeting. If a member is consistently absent or unable to attend committee and/or Board meetings, the Chair and/or Executive Director will meet with the member to explore appropriate remedies.

VI. Chair and Vice Chair – Roles and Responsibilities

A. Election Process:

- 1) The Chair and Vice Chair of the Board are appointed members elected by a majority of the appointed members.

- a. The Chair and Vice Chair of the Board are nominated by a committee for each two-year term and shall not serve more than two consecutive terms. The nominating committee shall be two members appointed by the existing Chair at least 30 days prior to the election.

The Chair and Vice Chair shall be elected at the second regular Board meeting in each even numbered year. The Chair and Vice Chair shall assume office on January 1st of the following year.

- b. The Chair and Vice Chair election process shall include:

- (1) A call for interested candidates and issues at the first regular Board meeting of the even numbered year allowing a two- to four-week response to the Executive Director. Only members with at least two calendar years remaining with their term of service are eligible to be Chair or Vice Chair candidates.
- (2) If no candidates come forward to express interest in Chair position, nominating committee recruits candidate(s).
- (3) Nominating committee shall seek input and advice from the outgoing Chair, Executive Director, and HCAI Director.

- (4) Nominating Committee shall develop questions for Chair/Vice-Chair of the Board candidates based on issues and discussions with (3) above.
- (5) Nominating committee interviews all candidates.
- (6) Nominating committee recommends candidate(s) or may give no recommendation at the second regular Board meeting of the calendar year.
- (7) Nominations are invited from the floor.
- (8) Call for vote.
- (9) Candidates with simple majority will be elected to Chair of the Board and Vice Chair of the Board positions.

B. The Chair has the following duties:

- 1) Calls all meetings
- 2) Serves as presiding officer at all meetings of the Board
- 3) Approves Board meeting agendas
- 4) Designates standing and ad-hoc committees, committee chairs, membership, their functions and objectives; as appropriate; subject to Board approval
- 5) Appoints consulting members, as appropriate, to serve on committees
- 6) Appoints newly appointed Board members to committees or fill vacancies, as needed, to establish committees
- 7) Dissolves or establishes additional committees, as appropriate, subject to Board approval
- 8) Advises HCAI's Director of Board activities

C. Upon absence of or upon delegation by the Chair, the Vice Chair of the Board shall assume the duties of the Chair. Should the Chair become unable to serve out the full term, the Vice Chair shall serve as Chair until the end of the two-year term and an election for Vice Chair shall occur during the next scheduled meeting of the Board. The Vice Chair shall serve until the end of the Chair's term.

VII. Meetings

In accordance with Government Code, Sections 11120 through et seq., all meetings are open to the public as required by the Bagley-Keene Open Meeting Act.

A. The types of Board meetings that can be held are:

1) Regular Board Meetings

The Board convenes on the call of the Chair. The Board will meet three times a year, usually in April, August, and December. It is the intent that the meetings are held in various areas throughout the state.

2) Special Board Meetings

The Chair may call special meetings at any time for any specific business. Special meetings are convened at various locations selected throughout the state.

3) Meetings Held Via Videoconference

Holding a meeting via video conference may be used to improve participation and communication of regularly scheduled Committee meeting. All Open Meeting requirements (Bagley-Keene) apply. All votes taken during a videoconference meeting must be conducted through roll call. At the request of the committee chair, the executive director will conduct the vote and announce the result.

4) Emergency Meetings

The Chair may call a meeting in emergency circumstances by providing telephone notice to media outlets at least one hour prior to the meeting. An "emergency" situation includes a disaster, which severely impairs the public health, safety, or both. In the event telephonic services are not working, notice must be given as soon as possible after the meeting.

B. Conduct of Board Meetings

1) Meeting Notices and Agendas

a) Notice of all public meetings and their agendas shall be made available to all members, to any person who so requests, and posted to the HCAI webpage, at least ten (10) days in advance of the meeting.

b) The agenda must provide a description of each item of business to be transacted or discussed so that interested members of the public will be capable of understanding the nature of each item.

- c) As a general rule, items not appearing on the agenda shall not be discussed or voted on. However, when an item is raised by a member of the public, the Board may accept comments and discuss the item for a limited time, and no action is taken until it is properly noticed for a subsequent meeting.

2) Quorum

A quorum for a meeting of the Board will consist of one more than half the voting members. For example:

- a) Five voting members; quorum is three (3) or more
- b) Nine; quorum is five (5) or more
- c) Ten; quorum is six (6) or more

3) The Board adopts the latest version of Robert's Rules of Order as the guideline for the conduct of its business.

4) Voting

- a) Only appointed members can vote at a Board meeting. Director-appointed ex-officio and statutory ex-officio members may not vote at a Board meeting.
- b) All voting will be conducted in open meetings, except as provided in the Board's appeals hearing procedures.

5) Conflict of Interest

During Board meetings, members shall abstain from voting when they believe they have, or would be perceived as having, a conflict of interest. Members that believe they have a conflict of interest should consult with Board Counsel at (916) 326-3610.

6) Meeting Minutes and Reports

- a) Minutes of each Board meeting shall be taken and presented for approval at a subsequent Board meeting.

Board meetings shall be recorded electronically for the purpose of developing accurate meeting minutes and to preserve the essence of the meeting.

- b) A summary meeting report of each Board meeting will be prepared and presented at a subsequent regular Board meeting for approval. Reports of Committee meetings held between

Board meetings shall also be presented to the Board for approval. Approval of a summary report will serve as adoption of the minutes of the Board or reporting Committees.

- c) Minutes of the Board or Committees as presented may be amended as proposed by a Board member at the time of the report and subsequently adopted in the motion to approve the minutes or the report.

C. Committee Formation and Conduct

The Chair of the Board shall appoint members for all standing and ad hoc committees. The Chair and Vice-Chair of each committee shall be a member of the Board. Of the appointees to a committee, the majority must also be members of the Board pursuant to Health and Safety Code, Sections 129930 or 129940. The Chair-elect shall present a list of committees, committee scope and membership to the Board at the last meeting of the even numbered year for its approval. The Chair may assign incoming Board members to committees at any time. The Chair may propose changes to the list of approved committees and membership at the last Board meeting of the odd numbered year.

- 1) The Committee Chairs have the following duties:
 - a) Carries out assignments from the Chair of the Board.
 - b) In consultation with the Board Chair, designates a Vice Chair for the committee.
 - c) Assists staff in the development of the committee meeting agenda.
 - d) Conducts meetings and presents a report of the committee's proceedings at the next scheduled Board meeting.
 - e) Reviews the committee meeting reports or assigns another member of the committee to do so.
 - f) Works with the Committee to establish Committee Goals.
 - g) Identifies the need for Consulting Members.
 - h) Defines the Work Product Deliverables.
 - i) Develops a Production Plan.
 - j) Defines Milestones and Action Items.

2) Meeting Notices and Agendas

- a) Notice of all public meetings and their agendas shall be made available to all members, to any person who so requests and to the HCAI webpage, at least ten (10) days in advance of the meeting.
- b) The agenda must provide a description of each item of business to be transacted or discussed so that interested members of the public will be capable of understanding the nature of each item.

As a general rule, items not appearing on the agenda shall not be discussed or voted on. However, when an item is raised by a member of the public, the Board may accept comments and discuss the item for a limited time, and no action is taken until it is properly noticed for a subsequent meeting.

3) Quorum

A quorum for a committee meeting will consist of one more than half the voting members. For example:

- a) Five voting members; quorum is three (3) or more
- b) Nine; quorum is five (5) or more
- c) Ten; quorum is six (6) or more

4) Meeting Minutes and Reports

- d) The proceedings of Committees will be recorded in the same manner as described in Section VII.B.6 for Board meetings.
- e) Minutes of Committee meetings shall be reviewed and approved by the Committee.
- f) Reports summarizing the minutes of Committee meetings shall be presented to the Board for approval. Acceptance of Committee reports by the Board may serve as approval of the minutes in lieu of Committee adoption when the Board meeting precedes the next meeting of the Committee.

5) Meetings Held Via Videoconference

Holding a meeting via video conference shall conform to Section VII.A.3.

- 6) Voting
 - a) Only Committee members including the Chair of the committee can vote at committee meetings. Members may include appointed members, director-appointed ex-officio members, statutory ex-officio members, and consulting members appointed to a committee by the Chair of the Board. State staff, invited guests and members of the audience may not vote at committee meetings.
 - b) Decisions are reached by a simple majority vote. Any member shall abstain from voting on any issue where there may be a possible conflict of interest. No issues can be voted upon unless a quorum is present. No voting by proxy will be allowed.
 - c) All voting will be conducted in open meetings, except as provided in the Board's Appeal Hearing Procedures.
- 7) Non-committee board members
 - a) If a committee has more than eight voting Board members in attendance, then non-committee voting members cannot participate or speak in the committee meeting. Ex-officio members may still participate.
 - b) If the above threshold is not met, non-committee Board members may participate in any discussion at the discretion of the Chair.
- 8) Special Committee Assignments

A Chair of a standing committee of the Board may assign special duties to members of the committee to advance development of issues properly noticed. Committee members assigned to special duties may not exceed two per task. Committee members assigned special duties must report their findings to the committee.
- 9) Conflict of Interest

During committee meetings, members shall abstain from voting when they believe they have, or could be perceived as having, a conflict of interest.
- 10) Meeting Reports

Meeting reports shall be taken of all meetings and submitted, including recommendations, to the committee and then the Board for consideration and approval.

D. Appeal Hearings

When the appellant wishes to continue an appeal after HCAI's decision following the Comment and Process Review conference, a formal hearing may be requested of the Board in accordance with the State Building Standards Code, Part I, Title 24, CCR, Article 5, Chapter 7.

1) Notice of Appeal Proceedings

Notice of appeal hearings shall be made available to all concerned parties in accordance with the State Building Standards Code, Part I, Title 24, CCR, Article 5, Chapter 7.

2) Conflict of Interest

During appeal proceedings, the appellant has the right to question conflicts of interest of any voting member. The Chair shall rule on such potential conflict in appeal matters.

3) Voting

Voting at appeal hearings shall be in accordance with the State Building Standards Code, Part I, Title 24, CCR, Article 5, Chapter 7.

VIII. Compensation

A. Eligibility for Reimbursement:

- 1) It is the policy of HCAI to pay subsistence and to reimburse reasonable and necessary travel and incidental business expenses to individuals who perform services as members of the Board, its committees, and consultants appointed by the Chair.
- 2) No payment of expenses to Board members can be made unless, prior to the time the expenses are incurred, an Oath of Office is on file with HCAI.
- 3) Members and ex-officio members shall be reimbursed in accordance with current State rules and regulations.

- 4) Transportation expenses will be reimbursed for all charges essential for transportation to and from the meeting place. Reimbursement shall be made only for the method of transportation which is in the best interest of the State. Travel should be via the shortest, usually traveled route. An explanation is required for any deviation or unusual delay.
- 5) Expense claims should be submitted within 30 days of the event at which the expenses were incurred. Board members should submit their claims to the Board staff. Failure to furnish receipts must be explained on expense claims. The amount involved cannot be allowed in absence of a satisfactory explanation. All expense claims must contain a brief statement of the purpose or objective of each trip or business-related meal for which reimbursement is claimed.
- 6) The Chair shall, for the good of the State of California, schedule hearings and meetings to minimize travel and per diem costs.

B. Meeting Per Diem

In accordance with H&S Code, Section 129960, Board members and ex-officio members of the Board are eligible to claim \$100.00 per day in performance of official duties on behalf of the Board and authorized by the Chair of the Board.

C. Expenses and Reimbursements

In accordance with the Victim Compensation and Government Claims Board rules, Members of the Board and consultants are reimbursed from the Hospital Building Account - Architectural Public Building Fund, for their reasonable actual expenses incurred in attending meetings. The meetings are conducted to carry out the provisions of H&S Code, Division 107, Part 7, Chapter 1, Article 5, Section 129925.

Draft 2024
Committee
Assignments,
Goals, and
Meeting Calendar



This page left intentionally blank.

**HOSPITAL BUILDING SAFETY BOARD
2024 COMMITTEES**

BOARD PROCEDURES COMMITTEE (AD HOC)

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

CODES AND PROCESSES COMMITTEE

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

EDUCATION AND OUTREACH COMMITTEE

Committee Members:

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

Consulting Members:

Kelly Martinez
Bruce Rainey
Belinda Young
Bill Zellmer

HCAI Representatives:

Hussain Bhatia
Monica Colosi
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.

ENERGY CONSERVATION AND MANAGEMENT COMMITTEE

Committee Members:

Gary Dunger, Chair
John Griffiths, Vice-Chair
Louise Belair
David Bliss
Michael Foulkes
Sharon Goei
Scott Mackey

Consulting Members:

Eric Johnson
David Lockhart

HCAI Representatives:

Larry Enright
Mia Marvelli
Carl Scheuerman
Jamie Schnick
Nanci Timmins

Meeting Dates:

April 3
October 9

Focus/Goals:

- Identify HCAI research projects for energy conservation, reduction of carbon footprint, and cost savings while maintaining health and safety.
 - 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
Marty 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
Sharon Goei
Marty 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:

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

HCAI Representatives:

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

Meeting Dates:

June 4
November 12

Consulting Members:

Benjamin Broder
Eric Johnson
Belinda Young

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

HCAI Department of Health Care
Access and Information

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



November 20, 2023

To: Members, Hospital Building Safety Board
From: Veronica M. Yuke, Acting Executive Director
Subject: Upcoming Meeting Dates

Please make note of the following meeting dates. Agendas will be sent out separately.

DATE	MEETING	LOCATION
January 10, 2024 10 am – 4 pm	Codes and Processes Committee	<u>In Person:</u> HCAI Los Angeles HCAI Sacramento
		<u>Microsoft Teams</u>
January 25, 2024 10 am – 4 pm	Instrumentation Committee	<u>In Person:</u> HCAI Los Angeles HCAI Sacramento
		<u>Microsoft Teams</u>
February 8, 2022 10 am – 4 pm	Education and Outreach Committee	<u>In Person:</u> HCAI Los Angeles HCAI Sacramento
		<u>Microsoft Teams</u>
February 21, 2022 10 am – 4 pm	Codes and Processes Committee	<u>In Person:</u> HCAI Los Angeles HCAI Sacramento
		<u>Microsoft Teams</u>
March 6, 2024 10 am – 4 pm	Structural and Nonstructural Regulations Committee	<u>In Person:</u> HCAI Los Angeles HCAI Sacramento
		<u>Microsoft Teams</u>

DATE	MEETING	LOCATION
April 3, 2024 10 am – 4 pm	Energy Conservation and Management Committee	<u>In Person:</u> HCAI Los Angeles HCAI Sacramento
		<u>Microsoft Teams</u>
April 18, 2024 10 am – 4 pm	Full Board	HCAI Sacramento 2020 West El Camino Ave, Ste. 900 Sacramento, CA 95833
		<u>Microsoft Teams</u>
May 8, 2024 10 am – 4 pm	Codes and Processes Committee	<u>In Person:</u> HCAI Los Angeles HCAI Sacramento
		<u>Microsoft Teams</u>
May 22, 2024 10 am – 4 pm	Education and Outreach Committee	<u>In Person:</u> HCAI Los Angeles HCAI Sacramento
		<u>Microsoft Teams</u>
June 1, 2024 10 am – 12 pm	Technology and Research Committee	<u>In Person:</u> HCAI Los Angeles HCAI Sacramento
		<u>Microsoft Teams</u>
July 17, 2024 10 am – 4 pm	Structural and Nonstructural Regulations Committee	<u>In Person:</u> HCAI Los Angeles HCAI Sacramento
		<u>Microsoft Teams</u>
August 1, 2024 10 am – 4 pm	Education and Outreach Committee	<u>In Person:</u> HCAI Los Angeles HCAI Sacramento
		<u>Microsoft Teams</u>

DATE	MEETING	LOCATION
August 15, 2024 10 am – 4 pm	Full Board	HCAI Los Angeles 355 S. Grand Ave, Ste. 2000 Los Angeles, California 90071 <u>Microsoft Teams</u>
September 11, 2024 10 am – 4 pm	Codes and Processes Committee	<u>In Person:</u> HCAI Los Angeles HCAI Sacramento <u>Microsoft Teams</u>
September 26, 2024 10 am – 4 pm	Education and Outreach Committee	<u>In Person:</u> HCAI Los Angeles HCAI Sacramento <u>Microsoft Teams</u>
October 9, 2024 10 am – 4 pm	Energy Conservation and Management Committee	<u>In Person:</u> HCAI Los Angeles HCAI Sacramento <u>Microsoft Teams</u>
October 29, 2024 10 am – 4 pm	Instrumentation Committee	<u>In Person:</u> HCAI Los Angeles HCAI Sacramento <u>Microsoft Teams</u>
November 12, 2024 10 am – 4 pm	Technology and Research Committee	<u>In Person:</u> HCAI Los Angeles HCAI Sacramento <u>Microsoft Teams</u>
December 10, 2024 1 pm – 4 pm	Two-day Full Board (Day 1)	HCAI Sacramento 2020 West El Camino Ave Sacramento, CA 95833 <u>Microsoft Teams</u>

DATE	MEETING	LOCATION
December 11, 2024 9 am – 3 pm	Two-day Full Board (Day 2)	HCAI Sacramento 2020 West El Camino Ave Sacramento, CA 95833 <hr/> <u>Microsoft Teams</u>

NOTE: Individuals with disabilities may request an accommodation or modification to observe or participate in the meetings by contacting Board Staff, Evett Torres or Marcus Palmer, at (916) 440-8300, hbsbsupportstaff@hcai.ca.gov or by sending a letter to 2020 West El Camino Avenue, Suite 800, Sacramento, CA 95833. Providing your request at least five (5) business days before the meeting will help ensure availability of the requested accommodation.

DRAFT

Board Rosters

2023

MEETING ATTENDANCE

COMMITTEE LIST

BOARD MEMBERSHIP

CONSULTING COMMITTEE MEMBERS

This page left intentionally blank.

HBSB Attendance 2022-2023		12-07-22 Full Board	12-08-22 Full Board	01-18-23 Education and Outreach	03-08-23 Education and Outreach	03-16-23 Energy and Conservation	04-11-23 Structural and Non-Structural	04-20-23 Full Board	05-09-23 Codes and Processes	05-24-23 Education and Outreach	06-21-23 Offsite Fabrication	06-27-23 Offsite Fabrication	07-12-23 Offsite Fabrication	07-26-23 Education and Outreach	08-1-23 Codes and Processes	08-14-23 Codes and Processes	08-17-23 Full Board	08-30-23 Education and Outreach	09-27-23 Education and Outreach	10-17-23 Codes and Processes	10-25-23 Energy and Conservation	10-26-23 Instrumentation	11-01-23 Education and Non-Structural
Bartley, Cody	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Belair, Louise	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Bliss, David	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Clark, Bruce	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Dandekar, Deepak	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Davis II, L. Michael	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Dunger, Gary	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Endres, Teresa	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Foulkes, Michael	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Goei, Sharon	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Griffiths, John	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Hooper, Mike	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Hurlbut, Bert	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Jackson, L. Scott	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Khorrnam, David	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Lampshire, Michelle	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Lew, Marshall	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Mackey, Scott	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Malley, O. Jim	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Naeim, Farzad	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
O'Conner, Michael	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Thornburg, Jennifer	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CONSULTING MEMBERS:																							
Border, Benjamin																							
Donelan, John			X	X																			
Haddadi, Hamid																							
Hershberg, Mark				X																			
Huang, Moh																							
Johnson, Eric			X																				
Lockhart, David																							
Martinez, Kelly			X	X																			
Rainey, Bruce			X	X																			
Shakai, Tony																							
Young, Belinda																							
Zellmer, Bill			X	X																			

Legend

Columns:
HBSB Meetings/ Dates

Rows: HBSB Members

Shaded cell with "X":
Member attended required meeting

Shaded cell without "X":
Member absent

Non-shaded cell with "X":
Member attended meeting that was NOT required

This page left intentionally blank.

**HOSPITAL BUILDING SAFETY BOARD
2023 COMMITTEES**

BOARD PROCEDURES COMMITTEE (AD HOC)

<p><u>Committee Members:</u> Michael Foulkes, Chair Scott Jackson, Vice-Chair Louise Belair Gary Dunger</p>	<p><u>HCAI Representatives:</u> Joe LaBrie Carl Scheuerman <u>Meeting Dates:</u> December 5</p>
<p>Focus/Goals:</p> <ul style="list-style-type: none"> • Meet as needed for: <ul style="list-style-type: none"> ○ Policies and Procedures updates ○ Nominating committee, training/onboarding members 	

CODES AND PROCESSES COMMITTEE

<p><u>Committee Members:</u> Michael O'Connor, Chair Jim Malley, Vice-Chair Cody Bartley Louise Belair Michael Davis Gary Dunger Teresa Endres Sharon Goei John Griffiths Scott Jackson Michele Lampshire Scott Mackey Farzad Naeim</p> <p><u>Consulting Members:</u> Mark Hershberg Kelly Martinez Belinda Young</p>	<p><u>HCAI Representatives:</u> Brett Beekman Larry Enright Mike Hooper Joe LaBrie Roy Lobo Bob Lyons Mia Marvelli Diana Navarro Carl Scheuerman Jamie Schnick Nanci Timmins <u>Meeting Dates:</u> February 7 CANCELED May 9 August 1 August 14 October 17</p>
<p>Focus/Goals:</p> <ul style="list-style-type: none"> • Update CANs and PINs to code (ongoing) • eTIO Program • Evaluate standard details for SNFs • Title 24, Part 3, 4, and 5 <ul style="list-style-type: none"> ○ Identify code modifications to support Part 6 implementation of energy savings measures 	

EDUCATION AND OUTREACH COMMITTEE

Committee Members:

Scott Mackey, Chair
Cody Bartley, Vice-Chair
Louise Belair
Michael Davis
Gary Dunger
Teresa Endres
John Griffiths
Bert Hurlbut
Marshall Lew
Jim Malley

Consulting Members:

Kelly Martinez
Bruce Rainey
Belinda Young
Bill Zellmer

HCAI Representatives:

Hussain Bhatia
Monica Colosi
Mike Hooper
Mia Marvelli
Jamie Schnick
Nanci Timmins

Meeting Dates:

January 18
March 8
May 24
July 26
~~August 23~~ RESCHEDULED
August 30
~~September 20~~ RESCHEDULED
September 30
~~October 11~~ CANCELLED
November 1

Focus/Goals:

- Prepare for 2023 Seminar: Tips from The Experts
- Support the development of webinars
- Develop a regular curriculum and predictable calendar for webinars

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

Subcommittee Members:

Cody Bartley, Chair
Scott Mackey, Vice-Chair

Consulting Members:

Kelly Martinez

HCAI Representatives:

Hussain Bhatia
Mia Marvelli

Meeting Dates:

~~June 13~~ RESCHEDULED
June 21
June 27
~~July 11~~ RESCHEDULED
July 12

Focus/Goals:

- Plan and prepare for webinar

ENERGY CONSERVATION AND MANAGEMENT COMMITTEE

Committee Members:

Scott Jackson, Chair
John Griffiths, Vice-Chair
Louise Belair
David Bliss
Gary Dunger
Michael Foulkes
Sharon Goei
Michele Lampshire

Consulting Members:

Eric Johnson
David Lockhart

HCAI Representatives:

Larry Enright
Mia Marvelli
Carl Scheuerman
Jamie Schnick
Nanci Timmins

Meeting Dates:

March 16
~~June 22~~ CANCELED
~~October 5~~ RESCHEDULED
October 25

Focus/Goals:

- Work with CEC to develop mutually agreeable standards for hospital building energy efficiency in 2025 code cycle
- Identify HCAI research projects for energy conservation, reduction of carbon footprint, and cost savings while maintaining health and safety
- Identify how to collaborate with CMS for implementation Microgrid demonstration project
- Pursue indoor air quality at a lesser energy cost for healthcare
- Water usage in healthcare environments. Efficiency/Sustainability

INSTRUMENTATION COMMITTEE

Committee Members:

Marshall Lew, Chair
Bruce Clark, Vice-Chair
Scott Jackson
Jim Malley
Farzad Naeim
Jennifer Thornburg

Consulting Members:

Hamid Haddadi
Moh Huang
Tony Shakal

HCAI Representatives:

Hussain Bhatia
Erol Kalkan
Roy Lobo
Ali Sumer

Meeting Dates:

~~February 16~~ CANCELED
~~June 4~~ CANCELED
October 26

Focus/Goals:

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

STRUCTURAL AND NONSTRUCTURAL REGULATIONS COMMITTEE

Committee Members:

Jim Malley, Chair
Farzad Naeim, Vice-Chair
Cody Bartley
Louise Belair
Bruce Clark
Michael Davis
Sharon Goei
Marshall Lew
Jennifer Thornburg

Consulting Member

Mark Hershberg

HCAI Representatives:

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

Meeting Dates:

~~January 24 CANCELED~~
April 11
~~August 29 CANCELED~~
November 7

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.
- Increase IOR competency, is adequate testing and inspection happening in the field? Roles and responsibilities of the design professional and HCAI.
- Implementation of small and rural hospital relief program, increase technical assistance and awareness
- Implementation of AB 1882 requirements. Reach out to stakeholders via seminars and webinars to raise awareness.

TECHNOLOGY AND RESEARCH COMMITTEE

Committee Members:

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

HCAI Representatives:

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

Meeting Dates:

~~April 26 CANCELED~~
~~September 7 CANCELED~~

Consulting Members:

Benjamin Broder
Eric Johnson
Belinda Young

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 20 – Sacramento and Los Angeles

August 17 – Sacramento

December 5 and 6 – Los Angeles

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 st term
	Farzad Naeim	8/2021	8/2025	1 st term
2 architects	Teresa Endres	8/2023	8/2027	1 st term
	Scott Mackey	8/2021	8/2025	1 st term
1 engineering geologist	Bruce Clark	12/2019	12/2023	1 st term
1 geotechnical engineer	Marshall Lew	5/2015	5/2023	2 nd term
1 mechanical engineer	Louise Belair	6/2017	6/2025	2 nd term
1 electrical engineer	John Griffiths	8/2022	8/2026	1 st term
1 hospital facilities manager	Gary Dunger	12/2022	12/2026	1st term
1 local building official	Sharon Goei	8/2023	8/2027	1 st term
1 general contractor	Cody Bartley	8/2022	8/2026	1 st term
1 fire/life safety representative	Scott L. Jackson	6/2018	6/2026	2 nd term
1 hospital inspector of record	Michael L. Davis	8/2023	8/2027	1 st term
3 public members	Michele Lampshire	12/2019	12/2023	1 st term
	David Bliss	5/2016	5/2024	2 nd term
	D. Michael Foulkes	6/2017	6/2025	2 nd term
TOTAL	16			

Ex-Officio Members		
HCAI, Director	Elizabeth Landsberg	No Term of Office Stipulated
State Fire Marshal	Daniel Berlant (Acting) 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	
TOTAL	6	

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

TOTAL HBSB Members	24	
---------------------------	-----------	--

2023 CONSULTING COMMITTEE MEMBERS

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

2023 CONSULTING COMMITTEE MEMBERS

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