

# Hospital Building Safety Board

Full Board Meeting  
August 17, 2023



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

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

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

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2020 West El Camino Avenue, Suite 800  
 Sacramento, CA 95833  
[hcai.ca.gov](http://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  
 Deepak Dandekar  
 Gary Dunger  
 Michael Foulkes  
 John Griffiths  
 David Khorram  
 Michele Lampshire  
 Marshall Lew  
 Scott Mackey  
 Jim O. Malley  
 Farzad Naeim

Director-Appointed

Ex-Officio Members

Bert Hurlbut  
 Michael O'Connor

**Date:**

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

**Location:**

Department of Health Care Access  
 and Information  
[2020 West El Camino Avenue, Suite 900](#)  
[Sacramento, CA 95833](#)

**Teleconference Meeting Access:**

[HBSB Teams Full Board Meeting](#)

For more detailed instructions on joining or attending the meeting, see pages 4 – 5.

Ex-Officio Members

**Elizabeth Landsberg**  
 HCAI Director

**Daniel Berlant (Acting)**  
 State Fire Marshal

**VACANT**

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 (Acting)

Veronica Yuke

**AGENDA**

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

Item	Subject	Facilitator	Pg
2	<b>Roll Call and Meeting Advisories/Expectations</b> <ul style="list-style-type: none"> <li>• Determination of Quorum</li> <li>• Conduct of Meeting</li> </ul>	Veronica Yuke, Acting HBSB Executive Director (or designee)	
3	<b>Department of Health Care Access and Information (HCAI) Update</b> <ul style="list-style-type: none"> <li>• Swearing-in Ceremony for new HBSB members: <ul style="list-style-type: none"> <li>○ Michael L. Davis II, Inspector of Record Representative</li> <li>○ Teresa Endres, Architect Representative</li> <li>○ Sharon Goei, Local Building Official Representative</li> </ul> </li> <li>• Recognition of outgoing HBSB members: <ul style="list-style-type: none"> <li>○ Deepak Dandekar, Architect Representative</li> <li>○ David Khorram, Local Building Official Representative</li> </ul> </li> <li>• HCAI Update</li> <li>• Discussion and public input</li> </ul>	Elizabeth Landsberg, HCAI Director (or designee)	7
4	<b>Overview and approval of the April 20, 2023, Full Board Meeting and Leadership Training for Board Members draft Meeting Report/Minutes</b> <ul style="list-style-type: none"> <li>• Discussion and public input</li> </ul>	Louise Belair, Board Chair (or designee)	9
5	<b>Energy Conservation and Management Committee</b> <ul style="list-style-type: none"> <li>• Overview and approval of the March 16, 2023, draft Meeting Report/Minutes</li> <li>• Discussion and public input</li> </ul>	Scott Jackson, Committee Chair (or designee)	51
6	<b>Structural and Nonstructural Regulations Committee</b> <ul style="list-style-type: none"> <li>• Overview and approval of the April 11, 2023, draft Meeting Report/Minutes</li> <li>• Discussion and public input</li> </ul>	Jim Malley, Committee Chair (or designee)	57
7	<b>Codes and Processes Committee</b> <ul style="list-style-type: none"> <li>• Overview and approval of the May 9, 2023, draft Meeting Report/Minutes</li> <li>• Overview of the August 14, 2023, meeting <ul style="list-style-type: none"> <li>○ Review the updates for the 2025 California Electrical Code, Part 3 Triennial</li> </ul> </li> <li>• Discussion and public input</li> </ul>	Michael O'Connor, Committee Chair (or designee)	71

Item	Subject	Facilitator	Pg
8	<b>Education and Outreach Committee</b> <ul style="list-style-type: none"> <li>• Overview and approval of the May 24, 2023, draft Meeting Report/Minutes</li> <li>• Discussion and public input</li> </ul>	Scott Mackey, Committee Chair (or designee)	77
9	<b>Offsite Fabrication/Preassembled Components Webinar Subcommittee of the Education and Outreach Committee</b> <ul style="list-style-type: none"> <li>• Overview and approval of the following draft Meeting Report/Minutes: <ul style="list-style-type: none"> <li>○ June 21, 2023</li> <li>○ June 27, 2023</li> </ul> </li> <li>• Discussion and public input</li> </ul>	Cody Bartley, Subcommittee Chair (or designee)	85 89
10	<b>Office of Statewide Hospital Planning and Development (OSHPD) Update</b> <ul style="list-style-type: none"> <li>• Workload and performance</li> <li>• Personnel changes</li> <li>• Discussion and public input</li> </ul>	Chris Tokas, HCAI OSHPD Deputy Director (or designee)	
11	<b>Inspection Services Unit Update</b> <ul style="list-style-type: none"> <li>• Inspection Services Unit to provide an update on accomplishments year-to-date</li> <li>• Discussion and public input</li> </ul>	Joe LaBrie, Inspection Services Unit Supervisor (or designee)	
12	<b>Building Standards Unit Update</b> <ul style="list-style-type: none"> <li>• Building Standards Unit to provide an update on accomplishments year-to-date</li> <li>• Discussion and public input</li> </ul>	Mia Marvelli, Building Standards Unit Supervisor (or designee)	
13	<b>Structural Services Section Update</b> <ul style="list-style-type: none"> <li>• Structural Services Section to provide an update on accomplishments year-to-date</li> <li>• Discussion and public input</li> </ul>	Roy Lobo, Principal Structural Engineer (or designee)	
14	<b>Comments from the Public/Board Members on issues not on this agenda</b>  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.	Louise Belair, Board Chair (or designee)	

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 Evett Torres at (916) 440-8453, [evett.torres@hcai.ca.gov](mailto:evett.torres@hcai.ca.gov), or 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 Evett Torres as stated above. Providing your request at least five (5) business days before the meeting will help ensure availability of the requested accommodation.**

**Future Full Board meetings:**

- December 6 – 7, 2023 (Los Angeles)

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**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.

**You are NOT required to identify yourself or provide other information to attend or participate in this meeting. If Microsoft Teams requires a name, you may enter “Anonymous.” You may also input fictitious information for other requested information if required to attend the meeting (e.g., [anonymous@anonymous.com](mailto:anonymous@anonymous.com)).**

Join on your computer, mobile app, or room device

- [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\\_NDA5ODgyYzYtMmJhZC00Nzc1LTkzYmQtYTEyYjNmMmEzZjA0%40thread.v2/0?context=%7b%22Tid%22%3a%2228891a93-888f-489f-9930-e78b8f733ca6%22%2c%22Oid%22%3a%224afdc7d5-a51c-4637-9e27-755fa3a30732%22%7d](https://teams.microsoft.com/l/meetup-join/19%3ameeting_NDA5ODgyYzYtMmJhZC00Nzc1LTkzYmQtYTEyYjNmMmEzZjA0%40thread.v2/0?context=%7b%22Tid%22%3a%2228891a93-888f-489f-9930-e78b8f733ca6%22%2c%22Oid%22%3a%224afdc7d5-a51c-4637-9e27-755fa3a30732%22%7d)
- Meeting ID: 270 792 910 42
- Passcode: EVvytb

Or call in (audio only)

- +1 (916) 535-0978 United States, Sacramento
- Enter Conference ID: 229 968 008#

Or join with a video conferencing device

- [576732194@t.plcm.vc](https://576732194@t.plcm.vc)

- Video Conference ID: 117 327 337 9
- [Alternate VTC instructions](#)

**Sacramento Office:**

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

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# HCAI Update

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## New HBSB Members

### Inspector of Record Representative:

**Michael L. Davis II** has 28 years of experience as an HCAI Inspector of Record (IOR), with 21 years in a leadership role. He is an original innovator of the industry, engineering the concept of “IOR firm” into the reality of its integral function today. As an IOR Lead and team director, Mr. Davis has provided managerial oversight on over 35 major projects, amounting to over \$4 billion in construction cost. Most recently, his projects include the campus redevelopment of Hoag Hospital Irvine, and the Sharp Metropolitan Medical Campus master plan.

Mr. Davis’s education in Business Administration with an emphasis in Finance, helps him to fully understand the impact of codes on the operational and financial performance of hospital systems.

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### Architect Representative:

**Teresa Endres, AIA**, is a licensed architect and a member of the American Institute of Architects. She has extensive knowledge gained from over 29 years of professional experience as a medical planner, healthcare architect, and owner's representative, dedicated to specialized and ultra-specialized healthcare projects.

Ms. Endres has designed over 30 million square feet of healthcare facilities, totaling over \$27 billion. She has planned every modality and department in a hospital, outpatient facility, and skilled nursing facility. Ms. Endres’s expertise and experience led HCAI leadership to invite her to serve as an OSHPD Emergency Design Task Force team leader.

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### Local Building Official Representative:

**Sharon Goei, PE**, is a licensed civil engineer with over 20 years of experience in the building and construction industry, as well as in local government. She is the Community Development Director of the City of Gilroy, with experience in the analysis, design, review, inspection, and construction of diverse commercial, residential, industrial, and institutional developments.

Ms. Goei graduated *magna cum laude* from the University of California, Los Angeles, with a Master of Science degree in Civil Engineering. She is past president of California Building Officials and was Chair of the California Building Standards Commission, Health Facilities Code Advisory Committee. Ms. Goei is a LEED Accredited Professional and an International Code Council Certified Building Official, Plans Examiner, and Building Inspector.


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# Full Board

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Draft Meeting Report/Minutes

April 20, 2023



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



**HOSPITAL BUILDING SAFETY BOARD  
Full Board Meeting and Leadership  
Training for Board Members**

**Thursday, April 20, 2023  
10:00 a.m. – 4:00 p.m.**

**Teleconference Meeting Access:  
[HBSB Teams SNRS Committee](#)**

**Appointed Members Present**

Louise Belair, Chair  
Scott Jackson, Vice Chair  
Cody Bartley  
David Bliss  
Bruce Clark  
Deepak Dandekar  
Gary Dunger  
Michael Foulkes  
John Griffiths  
David Khorram  
Michele Lampshire  
Marshall Lew  
Scott Mackey  
Jim Malley  
Farzad Naeim

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

Bert Hurlbut  
Michael O'Connor

**Ex-Officio Members Present**

Elizabeth Landsberg, HCAI Director  
Chris Tokas, FDD Deputy Director  
Nathaniel Gilmore, Department of Public  
Health (Delegate)  
Mia Mavelli, BSC Executive Director  
Jennifer Thornburg, State Geologist  
(Delegate)

**HCAI Staff Present**

Richard Tannahill  
Arash Altoontash  
Mike Hooper  
Roy Lobo  
David Neou  
Carl Scheuerman  
Jamie Schnick  
Ali Sumer  
Nanci Timmins  
John Gray, Attorney

**HBSB Staff Present**

Ken Yu, Executive Director  
Evet Torres

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

2 Louise Belair, Board Chair, called the meeting to order on April 20, 2023, at 10:00 a.m.,  
3 and HBSB Executive Director Ken Yu called roll.

4  
5 **2. Roll Call and Meeting Advisories/Expectations**

6 Eight members of the Board present constituted a quorum. There being fifteen present at  
7 the time of roll, a quorum was established.

8  
9 Mr. Yu read the public announcement regarding COVID-19, meeting rules, expectations,  
10 and procedures.

11  
12 **3. Department of Health Care Access and Information (HCAI) Update**

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

14  
15 Ms. Landsberg reported that many hospitals are facing financial challenges, especially  
16 some of the smaller and independent non-profits. After meeting with CEOs, a lot of their  
17 concerns centered around inflationary realities such as:

- 18 • Workforce cost
- 19 • Medical supply cost
- 20 • Prescriptions drug costs
- 21 • Seismic safety
- 22 • Medi-Cal rates

23  
24 Ms. Landsberg explained that under AB 412, there is new legislation to create a  
25 distressed hospital loan program, administered between HCAI and California Healthcare  
26 Facilities Financing Authority (CHFFA). The bill would allow HCAI to turn the loan into  
27 loan forgiveness and create more of a grant program, including if the funds were needed  
28 for seismic compliance.

29  
30 Ms. Landsburg stated that she was proud of the team for launching the Small and Rural  
31 Relief Program this week. Ten percent of the proceeds from the new e-vape tax are  
32 coming into HCAI, specifically for the Small and Rural Hospital Relief Program.

33  
34 Ms. Landsburg reported that HCAI has entered a contract with Civica RX for three  
35 biosimilar insulin products at a transparent, affordable price. This was negotiated by  
36 HCAI staff.

37  
38 Ms. Landsburg also reported that the Office of Healthcare Affordability had launched,  
39 and the first board meeting was on March 25th. The second board meeting would be  
40 next week. They are very active with members of the public and with their eight board  
41 members.



1 Ms. Landsburg commented on the budget, stating that in January, the Department of  
2 Finance was projecting a \$22 billion dollar deficit with proposed cuts. Impacting HCAI are  
3 proposed delays with some workforce investments and there are stakeholder concerns.  
4 The next step is the May revision of the budget.

5  
6 Ms. Landsburg recognized HSBS member Mike Hooper, Hospital Inspector of Record  
7 Representative. Mr. Hooper served:

- 8 • Four years on the Technology and Research Committee
- 9 • Four years on the Energy Conservation and Management Committee
- 10 • Six years on the Structural and Nonstructural Regulations Committee
- 11 • Eight years on the Codes and Processes Committee
- 12 • As the Chair of the Education and Outreach Committee for eight years, he  
13 spearheaded four hugely successful HCAI HBSB seminars and was a subject  
14 matter expert and presenter for the “Building Relationships for a Successful  
15 Project” and the “Remodel Plus” seminars.

16 Mike joined HCAI on March 20, 2023, as a Compliance Officer in OSHPD’s Inspections  
17 Services Unit.

18  
19 **Discussion and input**

- 20 • None

21  
22 **Information and Action item**

- 23 • None

24  
25 **4. Bagley-Keene Open Meeting Act Requirements**

26 **Presenter:** John Gray, HCAI Attorney

27  
28 Mr. Gray declared that prior to the pandemic, Gov. Code 11123 governed in-person  
29 meetings and requires that:

- 30 • The meeting shall be audible to the public at all locations.
- 31 • Each location shall be identified in the meeting notice.
- 32 • An agenda shall be posted at each location.
- 33 • Each location shall be accessible to the public.
- 34 • All votes shall be by roll call.
- 35 • Public report of any action taken and vote, or abstention, for each member.
- 36 • At least one member of the state body shall be present at locations listed on the  
37 meeting notice.
- 38 • The public shall have the opportunity to address the meeting prior or during the  
39 discussion or considerations of an agenda item.
- 40 • Locations that follow the above requirements can be connected via  
41 teleconference.

1 Mr. Gray stated that SB189 established Government Code §11133 which suspended  
2 Section §11123, requiring meeting locations be open to the public. It also suspended  
3 requirements that the agenda be posted at each location, and that each location be  
4 posted on the meeting agenda. This allowed for meetings to be conducted exclusively  
5 via teleconference. This will expire on July 1, 2023.

6  
7 Mr. Gray explained that prior to the pandemic, there was a procedure for hosting  
8 meetings exclusively via teleconference that was governed by §11123.5.

- 9 • This provides requirements for fully remote public meetings after July 1, 2023.
- 10 • It applies only to advisory boards, not the full board.
- 11 • Requires that if at any point the remote connection is lost, the meeting must  
12 adjourn and reconvene later.

13  
14 Mr. Gray commented that the legal office strongly recommends that following the  
15 expiration of §11133, we return to having board members attend in-person only, at the  
16 Sacramento or L.A. location.

17  
18 Mr. Gray disclosed that bill SB 544 is currently being considered by the Legislature. This  
19 would allow for fully teleconferenced public meetings under §11123, but would not go  
20 into effect until 2024, at the earliest.

## 21 22 **Discussion and input**

23 Ms. Belair asked if all board members need to be in one location for the next board  
24 meeting in August. Mr. Gray responded that they don't need to be in one location, they  
25 must be at one of the locations listed on the agenda and those locations must be open to  
26 the public.

27  
28 Mr. Gray commented that there may have previously been some confusion in the legal  
29 office about consolidating into one location. Legal thought that the meeting may have to  
30 adjourn due to an issue with the teleconference, applied to §11123, but it does not. If  
31 there's an issue with the teleconference between the two locations of Sacramento and  
32 the Los Angeles office, the meeting would not have to adjourn in the same way.

33  
34 Mr. Clark asked if this was the case for committee meetings as well. Mr. Gray responded  
35 in the affirmative.

36  
37 Mr. Dandekar asked that if Los Angeles loses connection, would there have to be a  
38 quorum in the Sacramento office in order for the meeting to continue. Mr. Gray  
39 responded in the affirmative but clarified that the difference is that the meeting can  
40 continue if the two locations can be reconnected. Under the other section, if connection  
41 is lost the meeting must be adjourned immediately. That was the reason why the Legal  
42 Office strongly recommended continuing under §11123.

1 Mr. Gray restated that this was how meetings were conducted prior to the pandemic.

2

3 **Information and Action item**

- 4 • None

5

6 **5. Overview and approval of the December 7-8, 2022, Full Board draft Meeting**

7 **Report/Minutes**

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

9

10 Ms. Belair stated the meeting was December 7-8, 2022. The meeting was in  
11 Sacramento, some members were virtual, and some members were in-person.

12

13 Topic 1: Welcome and introductions

14

15 Topic 2: Roll Call and Meeting Advisories/Expectations

16

17 Topic 3: HCAI Update - Presented by Ms. Landsburg, HCAI Director:

- 18 • Swearing in of Gary Dunger, Hospital Facilities Manager Representative  
19 • Recognition of outgoing HBSB member, Bruce Rainey, Hospital Facilities  
20 Manager Representative  
21 • HCAI will be launching the Office of Healthcare Affordability  
22 • HCAI will be overseeing CalRX Biosimilar Insulin Initiative

23

24 Topic 4: Overview and Approval of August 11, 2022, Full Board draft Meeting  
25 Report/Minutes - Presented by Ms. Belair, Board Chair:

- 26 • Swearing in of two new Board Members: Cody Bartley and John Griffiths  
27 • Recognition of outgoing Board Members: Pete Kreuser and Roy Lopez.  
28 • HBSB Chair and Vice Chair election  
29 • Committees Report Overview and Approval: Instrumentation, Codes and  
30 Processes, Education and Outreach, Energy Conservation and Management, and  
31 Structural and Nonstructural Regulations  
32 • FDD, Inspection Services Unit, Building Standard Unit, Structural Services  
33 Section, and Fire Prevention Unit Updates and highlights were reviewed.

34

35 Topic 5: Instrumentation Committee - Presented by Marshall Lew, Committee Chair:

- 36 • Overview and approval of July 5, and September 29, 2022, draft Meeting  
37 Report/Minutes:  
38 ○ July 5: Discussion and editing of the White Paper  
39 ○ September 29: Gathering of comments from committee members and public  
40 participants on the draft White Paper to produce final draft  
41 • Overview of October 27, 2022, Meeting:

- 1 ○ Annual update to the Committee regarding California Strong Motion
- 2 Instrumentation Program.
- 3 ○ Review of FY - 2021-22 HCAI/CSIMP Hospital Instrumentation Annual Report.
- 4 ○ Final draft of the White Paper was reviewed and edited.

5

6 Topic 6: Technology and Research Committee - Presented by Michael Foulkes,  
7 Committee Chair:

- 8 ● Overview and Approval of July 27, and November 1, 2022, draft Meeting  
9 Report/Minutes:
  - 10 ○ July 27: Four presentations:
    - 11 ■ Cyber security protection - CONCEAL
    - 12 ■ RIB iTwo 4.2 software
    - 13 ■ NPC-5 water and sewage holding tanks
    - 14 ■ Electricity - an all-electric campus case study
  - 15 ○ November 1: Four topics were discussed:
    - 16 ■ Inflation Reduction Act
    - 17 ■ Decarbonization of power generation transportation
    - 18 ■ Microsoft HoloLens2
    - 19 ■ Committee goals for 2023

20

21 Topic 7: Education and Outreach Committee - Presented by Mike Hooper, Committee  
22 Chair:

- 23 ● Overview and Approval of August 17, and October 19, 2022, draft Meeting  
24 Report/Minutes:
  - 25 ○ August 17: Topics discussed:
    - 26 ■ Eight webinar topics
    - 27 ■ Discussion and planning 2023 seminar
  - 28 ○ October 19: Topics discussed:
    - 29 ■ Eight webinar topics
    - 30 ■ Discussion and planning 2023 seminar
    - 31 ■ Committee goals for 2023

32

33 Topic 8: Energy Conservation and Management Committee - Presented by  
34 Scott Jackson, Committee Chair:

- 35 ● Overview and Approval of October 4, 2022, draft Meeting Report/Minutes:
  - 36 ○ Seven topics discussed:
    - 37 ■ Code updates for 2023 AB 2511, CEC 210, CEC 517.30, and CEC 417.42
    - 38 ■ Microgrid solutions
    - 39 ■ Opportunities for operational cost saving
    - 40 ■ Introduction to Innovus Power and Microgrid solution
    - 41 ■ Introduction to HOMER Energy

- 1           ▪ The unprecedented heatwave experienced in September 2020, at Kaiser
- 2            Permanente
- 3           ▪ Topics for 2023

4  
5 Topic 9: Joint Meeting of the Codes and Processes Committee, Energy Conservation  
6 and Management Committee, and Technology and Research Committee - Presented by  
7 Michael O'Connor, Codes and Processes Committee Chair:

- 8       • Overview and Approval of the November 1, 2022, Joint Committee draft Meeting  
9        Report/Minutes:
  - 10      ○ Topic Discussed:
    - 11          ▪ AB 2511, which requires SNFs (Skilled Nursing Facilities) to have an
    - 12            alternative source of power located on site to provide for at least 96 hours
    - 13            of alternative power to maintain availability of life-saving equipment and
    - 14            maintain oxygen-generating devices in the event of a power outage
    - 15          ▪ Bill requires facilities to comply with the requirements by January 2024

16  
17 Topic 10: Special Presentation: Healthcare Delivery Quadrangle - Presented by  
18 David Bliss, Board Vice Chair:

- 19       • Healthcare quadrangle: clinicians, payors, facilitators/systems, and regulation
- 20       • Without regulators, more preventable errors in hospitals would occur.
- 21       • Payors payment options presented
- 22       • Payment model solutions could help reduce inflated cost of healthcare.
- 23       • Upward pressure on cost, various causes may impact ability for hospitals to
- 24        remain in operation
- 25       • Healthcare work increase/mounting pressure factors

26  
27 Topic 11: Bagley-Keene Open Meeting Act and its Requirements for the Board -  
28 Presented by James Yi, HCAI Attorney:

- 29       • Review of the Bagley-Keene Open Meeting Act.

30  
31 Topic 12: Review and Approve 2023 Committee Assignments, Goals, and Meeting  
32 Calendar - Presented by Louise Belair, Board Chair.

33  
34 Topic 13: OSHPD Update - Presented by Chris Tokas, OSHPD Deputy Director:

- 35       • FDD was elevated to an office with the enactment of the 2021-22 California
- 36        Budget Act.
- 37       • Presented OSHPD top 3 objectives.
- 38       • Recognition of Roy Lobo who was awarded the 2022 Frederick Panhost Award.
- 39       • Small Rural Hospital Relief program (SRHR) update
- 40       • Highlighted AB 2511 HCAI efforts for SNFs to comply successfully

- 1 • OSHPD prepared PIN 75 for AB 1882; the proposed code change would be
- 2 included in the intervening code cycle.
- 3 • Public notices and annual status update report on seismic compliance programs
- 4 • Report on fires and earthquake that occurred in the fall of 2022
- 5 • Blackberry AtHoc software report
- 6 • OSHPD Objectives for 2023: Recruitment/succession, web page redesign,
- 7 develop integrated eTIO in eServices Portal.

8

9 Topic 14: Electronic Services Update - Presented by Rob Fisher, HCAI Compliance  
10 Officer:

- 11 • Report on the eServices accomplishments in 2022

12

13 Topic 15: Inspection Services Unit Update - Presented by Joe LaBrie, HCAI Inspection  
14 Services Unit Supervisor:

- 15 • Review of the Inspection Services Unit activities

16

17 Topic 16: Building Standards Unit Update - Presented by Richard Tannahill, OSHPD  
18 Deputy Division Chief:

- 19 • Updated on Building Standards Unit coordination activities with:
  - 20 ○ CDPH
  - 21 ○ CAC (Clinic Advisory Committee)
  - 22 ○ CAF (California Association of Health Facilities)
- 23 • Update on Building Standards Unit presentations at AIA chapters meeting,  
24 webinars
- 25 • Information about new PINs rolled-out in 2022

26

27 Topic 17: Structural Services Update - Presented by Roy Lobo, HCAI Principal Structural  
28 Engineer:

- 29 • Mr. Sumer gave a report on the Seismic Compliance Program.
- 30 • Update on Structural Service Unit activities
- 31 • PIN 58 update has been published on HCAI's website.

32

33 Topic 18: Fire Prevention Unit Update - Presented by Nanci Timmins, HCAI Chief Fire  
34 Life Safety Officer:

- 35 • 2022 code changes have been submitted and are already in print.
- 36 • Review of Fire Prevention Unit various training activities participation in the  
37 industry
- 38 • Presentation of a list of committees that the unit participates in

39

40 Ms. Belair stated there were no comments from the public/board members not on the  
41 agenda. The meeting was adjourned on December 8, 2022, at approximately 2:42 p.m.

1 Ms. Belair stated there were eight motions as part of the Full Board meeting:

- 2 • Motion 1: The Board unanimously voted to approve the August 11, 2022, Full  
3 Board draft Meeting Report/Minutes with corrections.
- 4 • Motion 2: The Board unanimously voted to approve the July 5, and September 29,  
5 2022, Instrumentation Committee draft Meeting Report/Minutes as presented.
- 6 • Motion 3: The Board unanimously voted to accept the final White Paper on the  
7 Benefits of Strong Motion Instrumentation.
- 8 • Motion 4: The Board unanimously voted to approve the July 27, and November 1,  
9 2022, Technology and Research Committee draft Meeting Report/Minutes as  
10 presented.
- 11 • Motion 5: The Board unanimously voted to approve the August 17, and October  
12 19, 2022, Education and Outreach Committee draft Meeting Report/Minutes with  
13 corrections.
- 14 • Motion 6: The Board unanimously voted to approve the October 4, 2022, Energy  
15 Conservation and Management Committee draft Meeting Report/Minutes as  
16 presented.
- 17 • Motion 7: The Board unanimously voted to approve the November 1, 2022, Joint  
18 Committee draft Meeting Report/Minutes as presented.
- 19 • Motion 8: The Board unanimously voted to adopt and approve the committee  
20 goals, rosters, and meeting dates for 2023 as discussed.

## 21 22 **Discussion and input**

23 Mr. Schnick recommended that topic 9, page 15, line 19 should be corrected to read:  
24 “power to maintain safe temperatures, availability of life-saving equipment.”  
25

## 26 **Information and Action item**

- 27 • None

## 28 29 **MOTION: [Mackey/Naeim]**

30 The Committee voted unanimously to approve the draft Meeting Report/Minutes with  
31 corrections.  
32

## 33 **6. Codes and Processes Committee**

34 **Presenter:** Michael O’Connor, Committee Chair  
35

36 Mr. O’Connor stated the meeting was held October 13, 2022, and there were two topics.  
37 The 2022 Intervening Code Adoption Cycle:

- 38 • Topic 1: Amendments to the code. The code will not become effective until July  
39 2024, however, the publication is January 24, and amendments needed to be  
40 submitted by 12/22 to the Building Standards Commission.

- 1 Focused codes were:
- 2 ○ Part 1, California Administrative Code
  - 3 ○ Part 2, California Building Code
  - 4 ○ Part 3, California Electrical Code
  - 5 ○ Part 4, California Mechanical Code
  - 6 ○ Part 5, California Plumbing Code
  - 7 ○ Part 10, Existing Building Code
  - 8 ● Topic 2: Committee goals for 2023, discussed:
    - 9 ○ Update CANs and PINs to code (ongoing).
    - 10 ○ Mental health jurisdiction flowchart and guide.
    - 11 ○ TIO Program: virtual/offsite inspections.
    - 12 ○ Develop standards for a behavioral health observation unit.
    - 13 ○ Evaluate and articulate detailed building standards for SNFs.
    - 14 ○ Emergency Design Guide.
    - 15 ○ Title 24, Part 3, 4, and 5:
      - 16 ■ NPC-5 Water, Sewer storage requirements - addressed by PIN 73
      - 17 ■ Identify code modifications to support Part 6 implementation of energy
      - 18 saving measures
      - 19 ■ Revisit MEP systems inspections requirements
      - 20 ■ Revisit Fire Protection drawing stamping requirements per MEOR
      - 21 ■ Ventilation Table Standard Format

22

23 Mr. O'Connor stated there was one motion:

- 24 ● Motion 1: The Board unanimously voted to approve and move forward with the
- 25 proposed Building Standard Code (BSC) revisions for the 2022 intervening cycle
- 26 allowing modifications.

27

#### 28 **Discussion and input**

- 29 ● None

30

#### 31 **Information and Action item**

- 32 ● None

33

#### 34 **MOTION: [O'Connor/Khorram]**

35 The Committee voted unanimously to approve the draft Meeting Report/Minutes as

36 presented.

37

### 38 **7. Instrumentation Committee**

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

40

41 Mr. Lew stated the meeting was held on October 27, 2022. There was not a meeting

42 report at the time, however, a summary of the meeting was given. Topics discussed:



- 1 • Annual update to the Committee on HCAI Hospital Instrumentation in  
2 collaboration with the California Strong Motion Instrumentation Program (CSIMP):  
3 ○ Review of Hospital Instrumentation for FY20-FY22 (not FY20-FY24 as stated  
4 in the binder):  
5 ▪ Owner-Paid Required Instrumentation:  
6 □ New Buildings. Specific requirements due to different technologies used  
7 that are experimental, not in the code, or need more instrumentation to  
8 understand the behaviors.  
9 □ Upgrades to existing builds using certain Alternate Means of  
10 Compliance (AMC).  
11 ▪ HCAI-funded Instrumentation (Kaiser Downey Hospital Tower, Marin  
12 General Hospital, and St. Bernardine Hospital).  
13 ▪ Completed - three, In progress - nine, Newly Approved - four  
14 ▪ Instrumentation upgrades needed for some older installations (recorders  
15 and sensors). Many hospitals were instrumented in the past, but the  
16 equipment is becoming obsolete and hard to repair/replace.
- 17 • Discussion and editing of the draft white paper, “The Benefits of Strong-Motion  
18 Instrumentation in Hospital Facilities”, facilitated by Marshall Lew, Committee  
19 Chair.  
20 ○ Review of Draft of White Paper  
21 ○ Modifications of Draft White Paper  
22 ○ Dr. Naeim and Mr. Lew to complete changes agreed to in the committee  
23 meeting for the finalized draft of the White Paper in collaboration with HCAI  
24 staff review prior to submission to HBSB in the December 2022 meeting.

25  
26 Mr. Lew stated there was 1 motion:

- 27 • Motion 1: The Board unanimously voted to accept the final White Paper on the  
28 Benefits of Strong Motion Instrumentation in the December 7, 2022, meeting.

### 31 **Discussion and input**

32 Mr. Lew mentioned that the White Paper had not been distributed yet but would be soon  
33 to various target audiences. From then will be seen what the next steps are for follow up  
34 to provide more information or education.

35  
36 Ms. Belair commended the Committee for their hard work on the paper and asked if  
37 there were any additional steps required.

38  
39 Mr. Tokas commented, it is a paper much needed in the community. It illustrates the  
40 need for instrumentation and the benefit to the society.

41  
42

1 **Information and Action item**

- 2 • None

3  
4 **MOTION: [Lew/Mackey]**

5 The Committee unanimously voted to accept the Instrumentation Committee draft  
6 Meeting Report/Minutes dated October 27, 2022, as presented.

7  
8 **8. Structural and Nonstructural Regulations Committee**

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

10  
11 Mr. Malley stated the meeting was held on November 7, 2022. Topics discussed:

- 12 • Topic 1: Discussion on HCAI PIN AB 1882, Hospitals: Seismic Safety:
- 13 ○ AB 1882 requires that on 1/1/2024 and annually thereafter, hospital owners
- 14 submit an annual status update on the Structural Performance Category
- 15 ratings of the buildings. Acute care hospitals that do not meet the seismic
- 16 safety standard by July 2023, are required to put a public notice in the lobby or
- 17 waiting area to notify the public. They must report to the following:
- 18 ▪ The county board of supervisors in whose jurisdiction the building was
- 19 located.
- 20 ▪ The city council.
- 21 ▪ Any labor union representing workers who work in the building that does
- 22 not comply with seismic safety regulation.
- 23 ▪ The board of directors of a district or joint power agency that provides fire
- 24 and emergency medical services in the hospital building’s jurisdiction.
- 25 ▪ HCAI department.
- 26 ▪ The board of directors of the hospital.
- 27 ▪ The local office of emergency services or equivalent agency.
- 28 ▪ The Office of Emergency Services.
- 29 ▪ The medical health operational area coordination.
- 30 ○ The law requires SPC-2 and NPC-5 buildings to include the following
- 31 identification:
- 32 ▪ On the title sheets of construction drawings and specifications, the
- 33 following documents and/or forms were excluded:
- 34  Amended construction documents (ACD)
- 35  Request for information (RFI)
- 36  Calculations and Testing, Inspection and Observation (TIO)
- 37 ○ There was discussion and input by the Committee. HCAI staff will consider the
- 38 suggestions made by the Committee Members.
- 39 ○ The PIN will be published in early December 2022.
- 40 • Topic 2: Proposed Amendments to the 2022 California Administrative Code, Title
- 41 24, Part 1, Chapter 6 on Small and Rural Hospital Relief Program:

- 1           ○ The program was a grant program administered by the Office of Health Facility
- 2           Loan Insurance (OHFLI) for qualified hospitals to seek funding for seismic
- 3           safety compliance projects.
- 4           ○ 11 hospitals had initiated application for program admission. Three had
- 5           revised compliance plans, which had been approved. Eight were pending
- 6           compliance plan submission status.
- 7           ○ Title 24 proposed language:
- 8           ▪ Define “Integrated Review” as applied to retrofit scheme development.
- 9           ▪ Bring revised compliance plan requirements into code, applicable to all
- 10          facilities.
- 11          ▪ Create provision in code for SRHRP and any subsequent funding program.
- 12          ○ PIN 71 added enabling language on State Grant Programs to state that the
- 13          State of California may establish programs that provide grant funding for
- 14          general acute care hospitals to advance seismic safety.
- 15          ○ The OHFLI determined that for a hospital to be eligible for the State Grant
- 16          Program, it has to be:
- 17          ▪ Small Hospitals.
- 18          ▪ Rural Hospitals.
- 19          ▪ Critical Access Hospitals.
- 20          ▪ Compliance imposes a financial burden on the applicant that may result in
- 21          hospital closures.
- 22          ▪ The hospital closures would impact health care access in the communities
- 23          surrounding the hospitals.
- 24          ○ Another enabling language was integrated review for seismic compliance. The
- 25          purpose was to provide technical assistance to a hospital project team to
- 26          develop a cost-efficient structural or nonstructural seismic retrofit program.
- 27          ○ Discussion and input were provided by the Committee.
- 28          ● Topic 3: Committee Goals for 2023:
- 29          ○ Progress on the 2022 Committee Goals:
- 30          ▪ Support HCAI with review of code changes (ongoing).
- 31          ▪ Support HCAI with review of new/revised PINs, CANs, and OPDs
- 32          (ongoing).
- 33          ▪ Implementation of SPC-4D and NPC-4D (goal was removed).
- 34          ▪ Issues regarding repurposing hospital buildings (ongoing).
- 35          ▪ Develop pre-approved details (moved to 2023 goal).
- 36          ▪ Revisit NPC-5 requirements (goal was removed).
- 37          ○ Potential Committee Goals for 2023:
- 38          ▪ Seismic compliance issues related to NPC-3, NPC-4D, and NPC-5.
- 39          Streamlining the process for compliance to meet the statutory and
- 40          regulatory deadline.
- 41          ▪ Review of Code amendments that are not obsolete as those issues have
- 42          been addressed in the model code.

- 1           ▪ Develop and implement procedures and enforceable building standards to
- 2           ensure safe and sustainable healthcare facilities.
- 3           ▪ New products, materials, and methods that would benefit the public by
- 4           early adoption rather than wait for their incorporation in the building code.
- 5           ▪ Increase IOR competency.
- 6           ▪ Implementation of the Small and Rural Hospital Relief Program, increase
- 7           technical assistance and awareness.
- 8           ▪ Implementation of AB 1882 requirements. Reach out to stakeholders via
- 9           seminars and webinars to raise awareness.
- 10          ▪ Training and outreach to industry, code changes and tips for working with
- 11          HCAI. In-person training meetings was highly suggested.

12

13 Mr. Malley stated there were two motions:

- 14          • Motion 1: Unanimous vote to approve the draft PIN related to AB 1882.
- 15          • Motion 2: Unanimous vote by the Committee to endorse the action for the
- 16          adoption of proposed regulation as it related to SB 395.

17

### 18 **Discussion and input**

19 Mr. Griffiths asked if there would be any changes in seismic performance resulting from  
20 the state going from historic drought to historic rainfall. And if so, was this something that  
21 the board should consider. Mr. Tokas replied that subsidence was being monitored in  
22 various parts of the state, but that there was no direct correlation between drought and  
23 earthquakes. Mr. Tokas added that when it came to changes in the substrate or  
24 geological conditions, those changes were constantly being monitoring for activity.

25

26 Ms. Thornburg commented that the significant rainfall causes flooding and landslides.  
27 Landslides were expected to increase through the summer months, but that a significant  
28 correlation with seismicity had not been seen.

29

30 Mr. Sumer commented that regarding drought, hospitals are required to have water  
31 storage, and that those requirements would not be changing.

32

33 Ms. Belair commented that page 51 of the meeting binder, line 32, topic 4, should read  
34 that Mr. Scheuerman was the presenter, not Mr. Sumer.

35

36

### 37 **Information and Action item**

- 38          • None

39

### 40 **MOTION: [Malley/Dandekar]**

41 The Committee unanimously voted to accept the Meeting Report/Minutes from the  
42 Structural/Nonstructural Regulations Committee on November 7, 2022, with corrections.

1 **9. Ad HOC Board Procedures Committee**

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

3  
4 Mr. Foulkes stated the meeting was held on November 18, 2022. Topics discussed:

- 5
- 6 • Joint Committee meetings:
    - 7 ○ The Committee helped with a topic last year that needed an immediate
    - 8 resolution. There was a legal comment regarding Bagley-Keene related to the
    - 9 Joint Committee meeting, and fact that there was a majority of the Board
    - 10 present between those two committees. There was a discussion with HCAI
    - 11 Legal and with Board Members on how we treat those going forward:
      - 12 ▪ When most of the Board will be present at a meeting, those meetings will
      - 13 constitute a full board meeting.
  - 14 • HBSB Leadership training for Committee Chairs/Vice Chairs:
    - 15 ○ With COVID there has not been as much training as in the past.
    - 16 ○ The discussion was if it be a standalone meeting or something that is
    - 17 incorporated into a board meetings
    - 18 ○ Because members are still allowed to meet remotely while still having two
    - 19 meeting locations, it was decided to add it to the full board meeting.
    - 20 ○ Training would be a refresher for all chairs and vice-chairs, not just the new
    - 21 ones.
    - 22 ○ Being able to run a quality meeting, have a quality agenda, and make sure the
    - 23 goals are clearly stated are important.

24 Mr. Foulkes stated there were no motions made at this meeting.

25  
26 Mr. Foulkes communicated the next steps for the Ad HOC Committee:

- 27
- 28 • Monitoring of SB 544 by Senator Laird from Santa Cruz:
    - 29 ○ This would permanently allow remote meetings to happen in California,
    - 30 making sure the public still has adequate access. If the bill passes and is
    - 31 signed, an Ad HOC Committee meeting will be held in the fall to adjust the
    - 32 internal policies and procedures to meet the requirement.

33 **Discussion and input**

- 34
- 35 • None

36 **Information and Action item**

- 37
- 38 • None

39 **MOTION: [Foulkes/Mackey]**

40 The Committee unanimously voted to approve the Meeting Report/Minutes from  
41 November 18, 2022, Ad HOC Board Procedures Committee.

1 **10. Education and Outreach Committee**

2 Presenter: Scott Mackey, Committee Chair

3  
4 Mr. Mackey commented that he had taken the role of Committee Chair, so the Vice Chair  
5 position was currently vacant.

6  
7 Mr. Mackey stated two meetings were held on January 18, 2023, and March 8, 2023.

8 Topics discussed:

- 9 • Webinar topics:
  - 10 ○ Offsite fabrication/pre-assembled components:
    - 11 ▪ This is an ever advancing and increasing popular method of construction
    - 12 assembly that is being done offsite, with preassembled components. There
    - 13 are challenges associated with reviewing that process and those materials
    - 14 prior to arriving on the jobsite and being incorporated into construction
    - 15 projects.
  - 16 ○ California Administration Code
  - 17 ○ Policy Intent Notice (PIN) 50: Integrated Review
  - 18 ○ Emergency Process Design Guidelines
  - 19 ○ OSHPD 3 Clinics presentation:
    - 20 ▪ This will help answer questions and clarify issues and concerns by public
    - 21 members about how that process is handled.
  - 22 ○ Testing, Inspection and Observation Program (TIO):
    - 23 ▪ This was completed in November 2022, on the electronic version of the
    - 24 TIO program. It was well received and it was recommended that it be
    - 25 repeated this year.
  - 26 ○ PINs and CANs (CAN 2-508): In the works.
  - 27 ○ Planning and development of the 2023 seminar:
    - 28 ▪ Guide for working on HCAI projects, Tips From the Experts.
  - 29 ○ Continue to establish curriculum and calendar dates for 2023 events.

30  
31 Mr. Mackey stated there were no motions made at the January 18, 2023, meeting.

32  
33 Mr. Mackey stated that there was one motion made at the March 8, 2023, meeting:

- 34 • Motion 1: Unanimous vote to approve the January 8, 2023, meeting  
35 Report/Minutes.

36  
37 **Discussion and input**

- 38 • None

39  
40 **Information and Action item**

- 41 • None

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

2 The Committee unanimously voted to approve the meeting Report/Minutes from January  
3 18, 2023, and March 8, 2023, Education and Outreach Committee.

4  
5 **11. OSHPD Update**

6 **Presenters:** Chris Tokas, OSHPD Deputy Director, and Ali Sumer, OSHPD Seismic  
7 Compliance Unit Supervisor

8  
9 Mr. Tokas cited HCAI's mission statement and commented on the values and  
10 achievements of the organization. He remarked that it takes the entire HCAI organization  
11 with all their components to collaborate and deliver to the people of the State of  
12 California, the level of health care they expect.

13  
14 Mr. Tokas commented that the operative word in risk management communities was  
15 'resilience.' HCAI has been a leader in earthquake safety along with its Seismic Safety  
16 Program. He said it is an organization that is always looking to expand experience and  
17 knowledge to fuel its growth.

18  
19 Mr. Tokas noted that Judy LaMarsh, a trailblazer for women's rights, who helped  
20 establish programs such as Medicare in Canada, once said, "Out of disaster, comes real  
21 progress". Using the worldwide laboratory created by earthquakes, HCAI's action has  
22 been to gain knowledge from earthquake disasters that occur annually around the world  
23 and adapt and implement policies that will facilitate its own disaster resilience.

24  
25 Mr. Tokas stated that California had a history of strong earthquakes and that the most  
26 prone areas are also the most heavily populated. Building design and construction has  
27 evolved because of lessons learned in damaging earthquakes. He noted that the Field  
28 Act was created after the 1933 Long Beach earthquake, and the Hospital Seismic Safety  
29 Act was created after the 1971 San Fernando earthquake.

30  
31 Mr. Tokas mentioned that earthquake engineers and building codes in California are very  
32 good, but that no earthquake is the same as the previous or the next. No building is the  
33 same as its neighboring building even though they may look the same. Engineering  
34 knowledge is constantly expanding from lessons learned and what we call the worldwide  
35 earthquake laboratory.

36  
37 Mr. Tokas stressed that the engineering experience gained by the reconnaissance team  
38 in Turkey, provided a unique opportunity to bring observations and lessons learned back  
39 to California. The reason is to make the necessary changes to building codes and  
40 ensuring the much-needed resilience in California communities.

1 Mr. Sumer remarked how valuable HBSB is, and how having this board in a healthcare  
2 environment is unique and a treasure. He thanked the team for coming together and  
3 HCAI for supporting him on this trip.

4  
5 Mr. Sumer mentioned that the size of Turkey is a little bigger than California, but similar  
6 in shape as well as fault line. There are two fault lines, the large one is the North  
7 Anatolian Fault, and the smaller one is the East Anatolian Fault. The East Anatolian  
8 Fault is where the earthquake occurred.

9  
10 Mr. Sumer stated the earthquake in Turkey on February 6, 2023, caused 50,000 plus  
11 deaths as of February 23, 2023. The first earthquake to strike was a Max. PGA: 1.23g  
12 and the second earthquake was .65g (METU).

- 13 • The first earthquake was a 7.8 magnitude event occurring at 4:17 a.m. on  
14 February 6, 2023. It shook almost 1/3 of the country, affected Syria, and was felt  
15 in Lebanon.
  - 16 ○ Roughly the size of L.A., including San Diego, or the Bay Area.
- 17 • There was an aftershock event eleven minutes later, and it was a 6.7 event, and a  
18 total of almost 6 more aftershock events followed.
  - 19 ○ The Northridge earthquake was a 6.7 magnitude event.
- 20 • Nine hours later, the second earthquake took place. It was a 7.5 magnitude event.
  - 21 ○ Almost perpendicular to the original earthquake. Ridgecrest, CA had the same  
22 type of event happen.
- 23 • Two weeks later, another 6.3 magnitude event happened south of the fault line.

24  
25 Mr. Sumer stated that one active organization was the EERI (Earthquake Engineering  
26 Research Institute) that brings teams together for communication and research. The  
27 purpose of the reconnaissance effort was:

- 28 • Observe structural and nonstructural performance of affected hospitals.
- 29 • Identify impediments to functional recovery.
- 30 • Provide recommendations for policy, building code, engineering practice, and  
31 construction (future work).

32  
33 Mr. Sumer stated that when reviewing data, the number of beds per 10,000 people in  
34 California is about 19, and Turkey is about 17. They are very comparable in terms of the  
35 number of hospitals.

36  
37 Mr. Sumer mentioned that their base was in Adana. They found that many stayed in  
38 tents. Even outside of the impact zone, the concerns with hotels were: 1) is it damaged?  
39 2) is there was water? 3) is there electricity? and 4) is there availability? Especially when  
40 taking into consideration the victims who were displaced and needed to flee to find  
41 shelter elsewhere.



1 Mr. Sumer stated they gathered information from thirty-three hospitals:

- 2 • Different sizes
- 3 • Private/government/universities
- 4 • Fixed base vs. base isolated
- 5 • Various construction years
- 6 • Ground motion record station
- 7 • Correlating record vs. surrounding damage

8 They gathered information by way of:

- 9 • Internet searches
- 10 • Drive-by
- 11 • Walk-by
- 12 • Inside visits
- 13 • Interviews

14

15 Mr. Sumer commented on the building performance:

- 16 • Structural systems remained largely intact (Life Safety Performance or better) in  
17 newer hospitals.
- 18 • Nonstructural damage often resulted in closure.
- 19 • Structural and nonstructural systems remained intact for base isolated and well-  
20 anchored/braced hospitals.
- 21 • Seismically isolated buildings provided operational performance.
- 22 • Isolation system displacements were much smaller than bearing capacities.
- 23 • Detailing at isolation plane may impede full displacement and/or result in  
24 nonstructural damage.

25

26 Ms. Phipps commented on the nonstructural performance of the buildings:

- 27 • Cladding: consisted of unreinforced masonry, covered in plaster. Initially resisted  
28 some load but cracked-up and dislodged; it was very brittle and very common.
- 29 • Marble/stone: mechanically anchored, but then started to spall and fell apart.
- 30 • Curtainwall: light system (common in the U.S.), performed well.
- 31 • Partitions: nearly all partitions were unreinforced masonry infill, it was brittle and  
32 sustained a lot of damage.
- 33 • Ceilings: suspended gypsum board ceilings and acoustic tiles (similar to the U.S.)  
34 but no bracing was observed. The ceiling grid, lights, etc. came down.
- 35 • Egress: stairs that were not properly reinforced, crumbled. The elevators had  
36 seismic switches that shut off automatically and required an elevator technician to  
37 turn them back on. Some damage was noted to the elevators.
- 38 • Equipment: in older hospitals, almost nothing was anchored inside, it shifted, and  
39 was damaged. The newer hospitals' equipment was anchored and little to no  
40 damage to anchored equipment was observed. Bulk oxygen storage tanks were  
41 unmoved, and it was noted that long, deep anchored systems worked the best.

- 1 • Distribution systems: piping systems did not appear to be braced, but not a lot of  
2 visual damage was noted (the water systems were turned off at the time). Flex  
3 lines were noted and seemed to hold up well.
- 4 • Medical equipment: most things anchored did not move. Whether it was useable  
5 after the earthquake, however, was still under review. Many things will need to be  
6 recalibrated by a specialized technician. Suspended monitors, hung but not  
7 laterally braced, performed well. OR booms, anchored for gravity loads but not  
8 braced for lateral loads, performed well. A sterilizer that was unanchored shifted  
9 and broke water and electrical connections. In the IVF clinic, incubators fell off the  
10 counter, bio safety cabinet hood fell off, microscopes fell off tables, and the  
11 incubators did not work.
- 12 • Furnishings and contents: lockers and blood samples fell over. However, data  
13 cabinets, though lightly restrained, remained in place.
- 14 • Lifelines:
  - 15 ○ Electricity was out but restored within 1-7 days to the most heavily affected  
16 areas.
  - 17 ○ Water was out and restored after a few weeks, depending on the location  
18 affected. Many hospitals had water tanks or wells onsite.
  - 19 ○ Gas was not restored at the time of their visit.
  - 20 ○ Communications were restored quickly.

21

22 Ms. Phipps mentioned the takeaways from their visit:

- 23 • Many seismically deficient older hospital buildings collapsed or partially collapsed.
- 24 • Although many newer hospitals performed structurally adequate, failure of  
25 nonstructural components resulted in evacuations.
- 26 • Hospital closures required patients to be transferred long distances, overwhelming  
27 surrounding hospitals.
- 28 • Outage of communications, electricity, gas, and water affected several hospitals.
- 29 • Emergency generators were critical to continued operations.
- 30 • Base isolated hospitals performed and functioned well.
- 31 • Timely, appropriate safety assessments are critical for preventing unnecessary  
32 evacuations. Owners were afraid of the liability of having people in the buildings  
33 without approval from the evaluators.

34

35 The EERI team is currently analyzing collected data, writing a detailed report, and  
36 keeping contact with partners in Turkey.

37

38 Ms. Phipps commented on what this means for California.

- 39 • For new hospitals - Code + Plan Review + Construction Oversight
- 40 • For existing hospitals - SB 1953 SPC and NPC requirements

1 Ms. Phipps stressed that we are on the right track and addressing known vulnerabilities  
2 in an appropriate way.

3

#### 4 **Discussion and input**

5 Mr. Schnick commented that there appeared to be a lot of nonstructural damage and  
6 asked if Turkey follows some of the same strict guidelines and requirements that  
7 California does. Mr. Sumer responded that non-structurally, they are not following the  
8 same regulations or guidelines. He noted that although a lot of equipment, type, and  
9 hardware are similar, how it is put together, who inspects it, and to what extent, are not  
10 the same.

11

12 Ms. Phipps confirmed that Turkey does have the code requirement. The Turkish  
13 nonstructural code equations look just like California's. However, there is little to no  
14 enforcement, especially in the older hospitals.

15

16 Mr. Dandekar commented that the physiological impact on clinicians and other hospital  
17 workers is one aspect people do not think about. They get scared when the damage is  
18 visual, even if it is not dangerous. He also noted that equipment is not easy to replace  
19 and wondered if that meant securing everything like a ship. Mr. Dandekar suggested that  
20 perhaps more attention should be paid to anchoring essential equipment.

21

22 Ms. Phipps agreed with Mr. Dandekar. Mr. Sumer was the primary author of PIN 68,  
23 which describes what nonstructural components are required to be braced or anchored  
24 in a hospital. She expressed that the "line" is already drawn but can always be revisited.  
25 Not every piece of equipment can be anchored, but we will try and get most of it.

26

27 Mr. Sumer commented that every country is different and has different needs. We look at  
28 what is on the ground and how it functioned. Every nation has a path to viable solutions  
29 and sometimes it deviates.

30

31 Mr. Naeim commented that leading Turkish engineers had suggested to him that using  
32 drift limit on design was one solution for nonstructural damage. Mr. Naeim didn't believe  
33 that made sense, since an easy resolution was providing proper anchoring, and asked if  
34 anyone had insight on that. Mr. Tokas agreed with Mr. Naeim's assertion.

35

36 Ms. Phipps also agreed with Mr. Naeim, adding that a primary reason for evacuation was  
37 the partitions. She said the common thinking is to just make them stiffer so they are less  
38 prone to cracking, but she believed that the answer was to stop building partitions that  
39 way. Ms. Phipps acknowledged that is not a minor suggestion; if industry was told it  
40 could not use certain materials anymore, it would cause a panic. But she affirmed the  
41 need and willingness to confront the basic materials of construction as an alternative to

1 making the building stiffer. Ms. Phipps stressed that she did not think a solution could be  
2 found until those issues were addressed.

3  
4 Mr. Sumer communicated that in all hospitals, there are a lot of visible cracks on gyp  
5 walls after an earthquake, and as Mr. Dandekar mentioned, that scares the staff because  
6 they are not engineers. He explained that although it looked horrible inside the buildings  
7 they entered, the team knew there was no possibility of collapse. He revealed that one  
8 hospital figured out that it needed to patch and paint those cracks, because although it  
9 was not structurally necessary, it was important for staff and patient psychology.

10  
11 Mr. Sumer stated that if 100,000 buildings have elevator issues that need to be reset,  
12 they could not expect vendors to be available immediately available after the earthquake.  
13 He revealed that there were two hospitals trained to do a manual reset. Staff did a  
14 couple of runs up and down, put “stuff” in the elevator, then removed it, but their fear still  
15 kept them from using the elevators in-person. Mr. Sumer summarized that elevators are  
16 very important, and training hospital staff how to reset them after an event should be an  
17 ongoing conversation.

18  
19 Dr. Catherine Sullivan, a member of the public, commented that she had been in  
20 healthcare in California for 40 years, including as the Director of Rehabilitation Services  
21 in major trauma centers. She agreed with Mr. Sumer, stating that because patients are  
22 solely dependent on staff, and staff must tend to patients’ needs despite their own fear,  
23 she believed that hanging inexpensive curtains over cracks in the wall could help.

24  
25 Dr. Sullivan also brought up the matter of training, egress, etc.; staff must know what to  
26 do when they cannot roll a gurney out of the hospital. She explained the issue is how to  
27 leave the hospital if the building is unsafe; it may be better to leave the patient there if  
28 that section of hospital is okay. Dr. Sullivan stressed that the best source of information  
29 is usually asking the staff for their thoughts.

30  
31 Mr. Sumer agreed with Dr. Sullivan, stating that unlike the Turkish system, HCAI  
32 Emergency Operations Center sends HCAI staff to hospitals as soon as possible after an  
33 earthquake. But that although HCAI staff collaborates with the engineers who are  
34 present or will arrive before HCAI can, evacuation decisions are finalized generally within  
35 the first 15 minutes.

36  
37 Dr. Catherine Sullivan disclosed that the Freeman Hospital in South Los Angeles was  
38 closed due to earthquake insecurity and that the 15 minutes Mr. Sumer mentioned, were  
39 exactly the point. Everyone is relieved once engineers arrive on the scene, but hospital  
40 staff needs to know what to do during those first minutes and be prepared. Hospitals  
41 must have very experienced managers on staff who can help keep everyone calm until  
42 the engineers arrive.

1 Ms. Phipps thanked Dr. Catherine Sullivan for her insight and input at the meeting.

2

3 Mr. Lew mentioned that regarding what hospitals can do in the first 15 minutes after an  
4 event, re-emphasized the importance of seismic instrumentation and what that could  
5 enable for those hospitals. Without having their structural engineer there, hospitals might  
6 have some guidance on what their options are, what the behavior of the building is, and  
7 what the risks are in terms of possible damage. Mr. Lew said that it showed the  
8 importance of the White Paper on the Benefits of Strong Motion Instrumentation.

9

10 Ms. Belair commented that perhaps some further discussion about how that can be  
11 practiced or applied to a situation like this is needed in the Instrumentation Committee.

12

13 Ms. Belair noted there was a lot of interest in this topic and in learning how to move  
14 forward as a group. She remarked that the input was great, which indicated a need for  
15 more discussion, but that time was short, and the board needed to keep moving forward  
16 with the agenda. Ms. Belair thanked the team for going to Turkey and for presenting their  
17 findings to the Board.

18

19 Ms. Phipps remarked that Mr. Sumer did a great job with leading the team in Turkey.

20

#### 21 **Information and Action item**

- 22 • None

23

#### 24 **12. Healthcare Microgrids Update**

25 **Presenters:** Jamie Schnick, HCAI Senior Electrical Engineer

26

27 Mr. Schnick explained that the day's discussion was about Healthcare Microgrids:

- 28 • Microgrids as EPS for hospitals and SNFs added to 2022 Intervening Code Cycle:
  - 29 ○ National codes are now allowing this, so it has been brought into California
  - 30 codes early.
- 31 • CMS Categorical Waiver for Healthcare Microgrid Systems to be used as EPS for
- 32 hospitals and SNFs.
  - 33 ○ Generators versus other solutions for power.
- 34 • Remaining barriers to realizing healthcare microgrids and EPSs.

35

36 Mr. Schnick mentioned proposed language to be added to code 517.30 Sources of  
37 Power (Hospitals) in (B.1) [OSHPD 1, 3, 4 & 5] Power Sources for the EES. It is in the  
38 process of being evaluated and possibly adopted. If it is passed, the code will be legal as  
39 of July 1, 2024. It lists the following as acceptable powering sources:

- 40 • Generating units
- 41 • Fuel cell systems
- 42 • Battery systems

- 1 • Health care microgrid

2

3 Mr. Schnick confirmed the same language had been added for SNFs as well. 517.41  
4 Required Power Sources (SNFs) in (B.1) [OSHPD 1, 3, 4, & 5] Power Sources for the  
5 EES.

6

7 Mr. Schnick mentioned the Categorical Waiver issued by the Federal Government.  
8 Previously, the Federal Government would not reimburse for Medicare or Medicaid  
9 services, but that was no longer a deterrent to using microgrids in place of emergency  
10 generators.

11

12 Mr. Schnick discussed the next barriers to realizing health care microgrids as EPSs.  
13 Replacing emergency generators with other sources that are not as reliable is not being  
14 proposed. Some of the issues still needing to be resolved are:

- 15 • Special Seismic Certification of product(s):
  - 16 ○ All our generators have Special Seismic Certifications, they are tested and
  - 17 proven to be able to operate in the event of an earthquake and function in an
  - 18 adequate manner to backup hospitals.
- 19 • Onsite fuel storage:
  - 20 ○ The typical gold standard of diesel generators. Diesel fuel is non-flammable,
  - 21 and easily stored. There are unground tanks at hospitals today that backup the
  - 22 facility for 96 hours. That solution for more sustainable sources is yet to be
  - 23 resolved.
- 24 • Proof of concept:
  - 25 ○ There are currently no hospitals in California that have their electrical system
  - 26 operating solely on microgrids.

27

28 Mr. Schnick mentioned AB2511 Updates:

- 29 • PIN 74:
  - 30 ○ Issued on December 12, 2022, which codified the new law.
- 31 • Webinars:
  - 32 ○ HCAI held seminars and participated in seminars to get the word out about the
  - 33 new requirement.
- 34 • A6-SNF backup power:
  - 35 ○ Development of A6 Advisory Guide which supplements the new PIN and goes
  - 36 into more detail on the requirements and offers potential solutions.
- 37 • Assessments:
  - 38 ○ Development of assessment applications which allows SNFs to assess their
  - 39 existing systems and identify deficiencies in respect to the new law.
- 40 • Collaboration:
  - 41 ○ HCAI has been working with CAHF - "How to" webinar scheduled.

- HCAI has been working with CDPH - Aligning on what will demonstrate compliance.

Mr. Schnick mentioned that HCAI started off with the microgrid taskforce, and then AB2511 came. One of the solutions in AB2511 was a microgrid, so the two things went well together.

- Five SNFs in Northern California:
  - There were five projects in Northern California that were implementing microgrids to back up the entire facility.
- Kaiser Ontario Microgrid:
  - A larger demonstration project with a large-scale microgrid under construction. It will provide interesting data on how microgrids can back up a hospital.

Mr. Schnick discussed the OSHPD-2 (Microgrid parallel with utility), saying that this is the solution that we have seen in design for the five microgrids that are under construction to back up the SNFs in Northern California. A microgrid, in terms of a single microturbine, backs up the entire facility and the existing generator remains in place. If the microturbine is seismically certified and the design team works out the fuel storage issues, this solution would meet the requirement of AB2511.

Mr. Schnick discussed the Microgrid as Supplemental Normal and Emergency Power Source (EPS). EPSS = Microgrid, EDB and ATs. Reviewing the graph of the project at Kaiser Ontario, the microgrid installed is a supplementary power source that backs up the power side and the emergency side. The significance of this is an alternate method of compliance and will back up the facility in 10 seconds, but it allows the microgrid to connect to the emergency source and carry the load.

Mr. Schnick explained the Future Microgrid as Emergency Power Source (EPS). EPSS = Microgrid, EDB, and ATs. He stated that as we start to see product seismically certified, we would still need to solve the on-site fuel storage requirements, and hopefully by then we will have more proof of concept, data from some of the non-essential microgrids that we see being built in our state, to prove that microgrids are just as reliable as emergency generators.

### **Discussion and input**

Dr. Bliss was grateful for the change in CMS rules. He reported that there is an interesting exception for long-term care facilities, in that they still explicitly require diesels, but that it is no longer a requirement for acute care hospitals. Dr. Bliss noted that Mr. Schnick has had an important role in the development, design, and process for both the acute care hospitals, and for the SNF piece. He went on to thank Mr. Chris Tokas for allowing Mr. Schnick to do that important work.

1 Dr. Bliss asked Mr. Schnick to:

- 2 1. address what are some of the expanded loads that SNFs will have to cover
- 3 because of AB2511, that are different from what has been the standard rule in
- 4 the past.
- 5 2. cover the financial considerations and if there are any specified funding
- 6 resources from the state or anyone else.
- 7 3. cover the issue with communities around California that have outlawed any
- 8 additional fossil fuel usage within their communities, like Berkley and Pasadena.
- 9 Additional fossil fuels cannot be added to the facility in those communities without
- 10 some exceptional circumstance.

11  
12 Mr. Schnick explained that for CMS, the exclusion is for subacute SNFs. If there is life  
13 support equipment in the SNF, it is still required to have a generator. This new law  
14 requires cooling HVAC maintaining systems between 71-81 degrees, to be backed up by  
15 onsite resources and to have provisions for 96 hours of operation. He noted there are  
16 also oxygen-generating devices and lifesaving equipment written into that law.

17 Mr. Schnick noted that from the assessment developed, it allows each facility to identify  
18 that they have HVAC equipment, and whether it is connected to normal or emergency  
19 power. Although these facilities are not as energy intensive as a hospital, more than half  
20 of the load is the HVAC system. They were backing up 10-15%, and now will need to  
21 back up 60-70% of the facility's energy use. He added that most of the existing systems  
22 on these SNF sites are inadequate to back up this load. Mr. Schnick then asked  
23 Dr. Bliss to speak on the financial load.

24  
25 Dr. Bliss stated that because it is an unfunded mandate, SNF owners and operators are  
26 worried about how to pay for this. He noted that although there is some new funding via  
27 the Inflation Reduction Act that may mitigate some of it, the not for profit and non-profit  
28 institutions are a bit under the gun with respect to financing.

29  
30 Mr. Griffiths disclosed that electrical engineers are currently facing the challenge of  
31 finding sustainability certified equipment to deliver these goals. He asked Mr. Schnick if  
32 there was a call to action to anyone in the supply and construction community to provide  
33 the tools and equipment needed to meet these requirements and goals. Mr. Schnick  
34 responded that HCAI has done its best to get the word out on that manner.

### 35 36 **Information and Action item**

- 37 • None

### 38 39 **13. Leadership Training for Board Members**

40 **Presenters:** Louise Belair, Board Chair and Scott Jackson, Board Vice Chair



1 Ms. Belair gave a brief presentation on the HBSB Leadership Training for Board  
2 Members:

- 3 • The Hospital Building Safety Board (HBSB) was established by law as part of SB  
4 1953 to advise the Director of the Department of Health Care Access and  
5 Information (HCAI).
- 6 • The Board also acts as a Board of appeals for HCAI in matters related to:
  - 7 ○ Design, construction, alteration, and seismic safety of health facility projects.
  - 8 ○ Fire and safety issues related to hospital facilities.
  - 9 ○ Alternate means of protection determinations.
- 10 • Board members serve the people of California and commit to full participation in  
11 the Board activities.
- 12 • The Board maintains contact with professional groups and industry organizations  
13 through the committees.
- 14 • The Board maintains state-of-the-art knowledge of architectural and engineering  
15 theory and applications related to health facilities.
- 16 • The Board does not provide oversight of OSHPD or HCAI; it is more of an advisory  
17 board.

18  
19 Ms. Belair mentioned that everyone received a Policies and Procedures Guide for HBSB  
20 when joining and that is what the Board uses to conduct business. It is updated  
21 occasionally and is re-distributed when necessary.

22  
23 Ms. Belair mentioned that HBSB holds a planning meeting annually between the Board  
24 Chair, Board Vice Chair, OSHPD Deputy Director, and Deputy Division Chiefs, to  
25 discuss the following items:

- 26 • The current year's accomplishments.
- 27 • Establish annual overall Board goals and objectives for the following year.
- 28 • Establish annual Committee goals and objectives for the following year.
- 29 • Assess goals versus accomplishments.

30  
31 Ms. Belair stressed that the main work of the Board is done at the Committee level.

32  
33 Ms. Belair communicated that at each Full Board meeting, the Chair of each committee  
34 reports on the work of the committee:

- 35 • Overview of topics discussed.
- 36 • Overview of motions.
- 37 • Discussions.
- 38 • Overview of next steps.

39 Ms. Belair explained how Board voting works:

- 40 • A quorum must be present to take any action or vote.
  - 41 ○ A quorum is one more than half the voting members.

- 1 • Only appointed members can vote at board meetings:
  - 2 ○ Ex-officio members may not vote.
  - 3 ○ Consulting members may not vote.
- 4 • Votes are decided by a simple majority.
- 5 • If a member has a conflict of interest, that member must abstain from voting.

6

7 Ms. Belair communicated how Committee voting works:

- 8 • A quorum must be present to take any action or vote:
- 9 • Only members of the Committee can vote on that committee:
  - 10 ○ Appointed members
  - 11 ○ Ex-officio members
  - 12 ○ Consulting member.
- 13 • Votes are decided by a simple majority conducted in open meetings.
- 14 • If a member has a conflict of interest, that member must abstain from voting.

15

16 Ms. Belair explained how appeals to the board work:

- 17 • CAC Article 5 covers appeals to the HBSB.
- 18 • Appeals come through HCAI.
- 19 • HBSB acts as the hearing body and conducts a public meeting.
- 20 • At least three HBSB voting members will hear and decide the appeal.

21 She also noted that appeals do not happen often.

22

23 Mr. Jackson detailed the roles and responsibilities of the different roles:

- 24 • Board Chair:
  - 25 ○ Calls all meetings.
  - 26 ○ Is the presiding officer at all Board meetings.
  - 27 ○ Designates committees, committee chairs, and membership.
    - 28 ▪ Subject to Board approval.
  - 29 ○ Appoints consulting members to committees.
  - 30 ○ Appoints new Board members to committees.
  - 31 ○ Dissolves or establishes committees.
    - 32 ▪ Subject to Board approval.
  - 33 ○ Advises HCAI Director on Board activities.
  - 34 ○ Authorized spokesperson for the Board.
- 35 • Board Vice Chair:
  - 36 ○ Fills in for the Board Chair when necessary.
  - 37 ○ Replaces Board Chair if Chair is unable to finish term.
- 38
- 39 • Committee Chair:
  - 40 ○ Carries out assignments from the Board Chair.
  - 41 ○ With the Board Chair, designates a Vice Chair for the Committee.

- 1 ○ Develops Committee meeting agendas with Board and HCAI staff.
- 2 ○ Conducts Committee meetings and reports to the full Board.
- 3 ○ Reviews Committee meeting reports.
- 4 ○ Establishes Committee goals with the Committee.
- 5 ○ Defines Committee work product deliverables.
- 6 ○ Develops a production plan.
- 7 ○ Defines milestones and action items.
- 8 ● Committee Vice Chair:
  - 9 ○ Fills in for the Committee Chair when necessary.
  - 10 ○ Provides support and assistance in preparing the work of the Committee.
- 11 ● Committee Members:
  - 12 ○ Attend Committee meetings.
    - 13 ■ This helps to establish a quorum.
  - 14 ○ Be prepared to engage in the Committee's work.
  - 15 ○ Fulfill assignments from the Committee Chair.
  - 16 ○ Vote at Committee meetings.
  - 17 ○ Interact with professional and industry organizations and report to the
  - 18 Committee.
- 19 ● HCAI Staff:
  - 20 ○ Report to the Board and Committees.
  - 21 ○ Work with Committees on various initiatives.
  - 22 ○ Help develop goals and objectives.
  - 23 ○ Seek advice and industry feedback.
- 24 ● HBSB Staff:
  - 25 ○ Executive Director:
    - 26 ■ Provides administrative direction.
    - 27 ■ Coordinates with HCAI staff.
    - 28 ■ Authorized spokesperson for the Board.
  - 29 ○ Administrative Staff:
    - 30 ■ Supports Board activities.
    - 31 ■ Provides administrative support.

32  
33 Ms. Belair detailed the meeting protocols and behaviors:

- 34 ● Meeting preparation:
  - 35 ○ Review the minutes of the last meeting and other meeting materials from the
  - 36 HCAI website prior to the meeting.
  - 37 ○ Bring all necessary materials.
  - 38 ○ Do your research.
  - 39 ○ Make sure you have the most up to date information.
- 40 ● Meeting agendas:
  - 41 ○ The meeting roadmap, identify the goal of the meeting.
  - 42 ○ Organize agenda by priority, be specific, no vague agenda items:

- 1           ▪ Reference the committee goals.
- 2           ▪ Contact HCAI Committee Representatives for items to cover.
- 3           ○ Confirm with speakers prior to issuing agenda to HBSB Staff.
- 4           ○ Have agenda prepared and submitted to HBSB staff at least 3 weeks prior to
- 5           the meeting.
- 6           ○ Start on time with a review of the agenda.
- 7           ○ Keep the meeting moving, identify time frames.
- 8           ○ Take a break at least every 90 minutes.
- 9           ● Meeting presentations:
  - 10           ○ Topic should be general education—no sales pitch.
  - 11           ○ Request abstract from presenter to review before confirming.
  - 12           ○ Presentation should be tailored to the audience.
- 13          ● Action item assignments:
  - 14           ○ At the end of each agenda item, verify actions with the Committee.
  - 15           ○ Confirm what needs to be accomplished.
  - 16           ○ Identify who is best suited to get the action done.
  - 17           ○ Determine the timeline for completion.
  - 18           ○ Keep in mind the context.
  - 19           ○ At the end of the meeting, restate action items.
  - 20           ○ Carry action items to the next meeting.

21

22 Mr. Jackson noted additional meeting protocols and behaviors:

- 23          ● Meeting reports:
  - 24           ○ At the beginning of the meeting, the Chair reports on the previous meeting.
  - 25           ○ The previous meeting minutes are available prior to the current meeting,
  - 26           expect members to have reviewed the minutes.
  - 27           ○ The chair report should focus on highlights.
  - 28           ○ Start with meeting date, summarize topics and any motions, include action
  - 29           items.
  - 30           ○ Reports to Full Board are similar except all members may not be as familiar
  - 31           with previous meeting minutes.
- 32          ● Manage distractions with minimal meeting interruption:
  - 33           ○ Members and public need to be heard from, be aware of potential speakers.
  - 34           ○ Clearly identify speaker by name if possible.
  - 35           ○ Keep the meeting moving, do not allow interruptions.
  - 36           ○ If speaker goes off topic, bring them back or direct them to comment at the
  - 37           end of the meeting.
  - 38           ○ Ask disruptive people to wait their turn.
- 39
- 40          ● Committee interaction:
  - 41           ○ Chair:
    - 42           ▪ Keep to the agenda.

- 1           ▪ Ask dissenters to summarize their convictions in a direct statement.
- 2           ▪ Allow everyone to be heard.
- 3           ▪ Keep the meeting moving.
- 4       ○ Members:
- 5           ▪ Ask for the floor, do not interrupt.
- 6           ▪ Keep comments short and to the point.
- 7           ▪ Do not hesitate to comment, criticize constructively, or disagree.

8

9 Mr. Gray communicated the purpose of the Bagley-Keene Open Meeting Act:

- 10       • To allow members of the public to attend and participate as fully as possible in a
- 11       state body’s decision-making processes.
- 12       • We answer to the people, and they have a right to know what goes on the
- 13       meetings.
- 14       ○ Gov. Code section 11120; 102 Ops.Cal.Atty.Gen. 42)
- 15       • The act applies to “state bodies,” such as “every state board... that is created by
- 16       statute...”:
- 17       ○ Gov. Code section 1121(a)
- 18       ○ HBSB is created by Health & Safety Code section 129925.
- 19       ○ When there is a conflict between Bagley-Keene and Roberts rules, we follow
- 20       Bagley-Keene.
- 21       • Committees: The Act also applies to any advisory committee HBSB creates if the
- 22       committee consists of 3 or more persons:
- 23       ○ Gov. Code section 11121(c)
- 24       ○ This can be any 3 people; they do not have to be members of the board.
- 25       • The Act applies to “Meetings”:
- 26       ○ Every “meeting” is subject to the Act’s requirements.
- 27       ○ “Meeting” definition: A quorum of the Board/Committee convening, at the same
- 28       time and place to hear, discuss, or deliberate on any item within the subject
- 29       matter of the Board/Committee.
- 30       ▪ A quorum is the minimum number of members who must be present for the
- 31       Board/Committee to transact business and California law generally states
- 32       that a quorum is a majority of the members. (94 Ops.Cal.Atty.Gen. 100)
- 33       ▪ For the full board, quorum is 9 appointed/voting members (out of 16). This
- 34       does not include ex-officio members.
- 35       ○ Gov. Code section 11122.5(a)
- 36       • Physical presence/location requirements and COVID-19 exception:
- 37       ○ Normally, the Act requires the physical presence of members at meetings and
- 38       a physical location where the public may attend. The Act allows some
- 39       teleconferencing, but still requires physical presence and location.
- 40       ○ Because of COVID-19, the Legislature suspended the physical
- 41       presence/location requirements until July 1, 2023. (Gov. Code section 11133):

- 1           ▪ The Board must still comply with the notice and public participation
- 2           requirements of the Act.
- 3           ▪ Statute urges state bodies to adhere as closely to the Act as possible to
- 4           “maximize transparency and provide the public access to the meetings”.
- 5       • Serial communications are prohibited:
- 6           ○ Outside of a properly noticed “meeting”, three or more members cannot
- 7           ▪ Communicate in a series of communications of any kind.
- 8           ▪ Directly or through intermediates.
- 9           ▪ Regarding items within the subject matter of the Board.
- 10          ○ Purpose: to prevent deliberations/actions/decisions being made in secret,
- 11          without public knowledge or participation.
- 12          ○ Gov. Code section 11122.5(b)
- 13       • “Meeting” exceptions:
- 14          ○ The act does not consider the following to be “meetings”:
- 15           ▪ Public contacts: a member of the public contacting a quorum of members if
- 16           members do not solicit such contacts.
- 17           ▪ Social gatherings: a quorum of the members may attend a purely social
- 18           event if they do not discuss Board issues among themselves.
- 19           ▪ Conferences: exempt, if they are open to the public and involve subject
- 20           matter of general interest, and a quorum of the members do not discuss
- 21           Board issues among themselves, other than as part of the scheduled
- 22           program.
- 23          ○ Gov. Code section 11122.5(c)
- 24
- 25       • Meeting notices and agenda:
- 26          ○ The Board must post meeting notices on the internet at least 10 days before a
- 27          meeting.
- 28          ○ Notices must have:
- 29           ▪ Time and place(s) of the meeting:
- 30           □ For virtual meetings, the notice must have “the means by which
- 31           members of the public may observe the meeting and offer public
- 32           comment”.
- 33           ▪ A specific agenda for the meeting that contains a brief description of all
- 34           items to be discussed/transacted at the meeting:
- 35           □ The description should provide enough information to allow the public to
- 36           understand what issues will be discussed or considered.
- 37           □ Generally, if an issue is not on the agenda, the Board cannot consider
- 38           it. However, a new issue can be mentioned for the purpose of including
- 39           it in a future meeting.
- 40           ▪ The 10-day notice requirement does not apply for “emergency” or “special”
- 41           meetings as defined under statute.
- 42           ▪ Gov. Code section 11125 and 11133

- 1 • Public attendance and participation:
  - 2 ○ Generally, meetings must be open and public:
    - 3 ▪ Conditions on public attendance at the meeting cannot be imposed. An
    - 4 individual is not required to identify themselves or to sign-in to attend.
  - 5 ○ Public participation: the Board must give the public an opportunity to directly
  - 6 address the Board on each agenda item before or during the Board's
  - 7 discussion or consideration of the item:
    - 8 ▪ Public criticism of the Board cannot be prohibited.
  - 9 ○ Broadcasting/recording of meetings: members of the public are allowed to
  - 10 record and broadcast meetings.
  - 11 ○ Gov. Code sections 11123, 11124, 11124.1 and 11125.7
- 12 • Closed sessions:
  - 13 ○ "Close sessions" are parts of meetings without the public and are only allowed
  - 14 for specific statutorily stated reasons, e.g., to discuss pending litigation or to
  - 15 discuss employment issues.
  - 16 ○ These sessions must be included on the agenda and the specific statutory
  - 17 authority allowing the closed sessions must be stated.
  - 18 ○ These are rare occurrences.
  - 19 ○ Gov. Code section 11126
- 20 • Meeting documents:
  - 21 ○ Generally, materials distributed to the Board prior to or during a meeting are
  - 22 disclosable public records:
    - 23 ▪ Some material can be held confidential pursuant to certain sections of the
    - 24 California Public Records Act.
    - 25 ▪ Materials prepared by Board members or staff are required to be available
    - 26 to the public at the meeting.
    - 27 ▪ Materials prepared by others are required to be available to the public after
    - 28 the meeting
  - 29 ○ Gov. Code section 11125.1
- 30 • Voting:
  - 31 ○ The vote or abstention of each member must be publicly reported. (Gov. Code
  - 32 section 11123(c)).
    - 33 ▪ If a virtual meeting, votes must be taken by roll call. (Gov. Code sections
    - 34 11123(b) and 11123.5(e)).
  - 35 ○ Vote by secret ballot at a meeting is not allowed. (68 Ops.Cal.Atty.Gen. 65.)
  - 36 ○ Vote by proxy is not authorized. (68 Ops.Cal.Atty.Gen. 65.)
- 37 • Abstentions:
  - 38 ○ Abstentions may complicate voting:
    - 39 ▪ In general, a state body cannot act without support of at least a majority of
    - 40 its quorum:
      - 41  For the full Board, this is at least 5 members.

- 1           ▪ Members who voluntarily abstain are counted toward a quorum, but
- 2           decisions will only require the majority of those members who actually vote
- 3           as long as there is support from a majority of the quorum.
- 4           ▪ Members who are disqualified from voting by law are not counted toward a
- 5           quorum.
- 6           ▪ 94 Ops.Cal.Atty.Gen 100.
- 7       • Penalties for non-compliance:
- 8           ○ Civil:
- 9           ▪ Any interested person, the Attorney General, or a district attorney can
- 10           commence court action to stop or prevent violations of the Act. (Gov. Code
- 11           section 11130.).
- 12           ▪ Any interested person can also commence court action to declare a Board
- 13           action taken in violation of the Act’s notice, agenda, and public attendance
- 14           requirements as “null and void”. (Gov. Code section 11130.3)
- 15           ▪ If successful, a plaintiff can obtain a court order, court costs, and attorney
- 16           fees. (Gov. Code section 11130.5)
- 17           ○ Criminal:
- 18           ▪ It is a misdemeanor for any member to attend a meeting in violation of the
- 19           Act and where the member “intends to deprive the public of information to
- 20           which the member knows... the public is entitled”. (Gov. Code section
- 21           11130.7)
- 22

23 Mr. Gray explained the purpose of Conflict of Interest and Form 700:

- 24       • Overview of conflict-of-interest laws:
- 25           ○ Conflict of interest laws (non-exhaustive list):
- 26           ▪ Financial conflicts: An HBSB member “shall not make, participate in
- 27           making, or in any way attempt to use the [their] official position to influence
- 28           a governmental decision in which the [member] knows or has reason to
- 29           know the [member] has a financial interest”.
- 30           ▪ Common law doctrine: An HBSB member is “prohibited from placing
- 31           themselves in a position where their private, personal interests may conflict
- 32           with their official duties”.
- 33           ▪ Incompatible activities: An HBSB member “shall not engage in any
- 34           employment activity, or enterprise which is clearly inconsistent,
- 35           incompatible, in conflict with, or inimical to his or her duties as a state
- 36           officer or employee”.
- 37       • The purpose of conflict-of-interest laws:
- 38           ○ The State of California’s “conflict of interest statutes are concerned with what
- 39           might have happened rather than merely what actually happened...
- 40           ○ They are aimed at eliminating temptation, avoiding the appearance of
- 41           impropriety, and assuring the government of the officer’s undivided and
- 42           uncompromised allegiance...



- 1           ○ Their objective is to remove or limit the possibility of any personal influence,  
2           either directly or indirectly, which might bear on an official’s decision...”.
- 3           ○ People v. Honig (1996) 48 Cal.App.4th 289, 314
- 4           ● Appearance of impropriety:
  - 5           ○ The State of California is concerned with not just actual conflicts of interest,  
6           but also the appearance of impropriety. This is to instill confidence and build  
7           trust in government and that its decisions are legitimate.
- 8           ● Exception: financial effect on representative interest:
  - 9           ○ There is no conflict of interest if a decision would generally impact the industry,  
10          trade, or profession, or other identified interest the HBSB member legally  
11          represents in HBSB.
  - 12          ○ Cal. Code Regs., Title 2, section 18703(e)
- 13          ● Disqualification and recusal:
  - 14          ○ A HBSB member disqualified from making or participating in decisions must  
15          not take part in the decision, and the member’s recusal from the decision must  
16          meet the following requirements:
    - 17          ▪ The member’s determination of a conflict of interest may be accompanied  
18          by an oral or written disclosure of the conflicting interest.
    - 19          ▪ The member’s presence will not be counted toward achieving a quorum.
    - 20          ▪ During a closed session, a disqualified member must not be present when  
21          the decision is considered or knowingly obtain or review a recording or any  
22          other nonpublic information regarding the governmental decision.
    - 23          ▪ HBSB may adopt a local rule requiring the member to step down from the  
24          dais or leave the chambers.
  - 25          ○ Cal. Code. Regs., Title 2, section 18707(b)
- 26          ● Form 700:
  - 27          ○ HCAI is required to have a Conflict-of-Interest Code which identifies its  
28          positions that involve the making, or participation in the making, of decisions  
29          that may have financial effects. These positions are required to file a  
30          “Statement of Economic Interests,” also known as the “Form 700”.
  - 31          ○ HBSB members will be included in HCAI’s Conflict of Interest Code and will be  
32          required to file Form 700 about relevant financial interests. Generally, form 700  
33          require a member to disclose foreseeable conflict of interests, which HCAI will  
34          specifically identify in its Conflict-of-Interest Code.
  - 35          ○ This serves to provide transparency to the public and acts as a reminder to  
36          members of potential conflicts of interest.
  - 37          ○ This form must be filled out when you are appointed and then annually after  
38          that. They are due at the beginning of April and there are financial penalties for  
39          not completing the form on time.
- 40          ● Form 700 disclosure requirements:
  - 41          ○ Category 4

- 1           ○ Must disclose all interests in real property in the State of California, as well as
- 2           investments, business positions and income, including gifts, loans, and travel
- 3           payments, from sources of the type that engage in the management, design,
- 4           construction, construction review, or financing of, health facilities of the type
- 5           subject to plan and construction review and approval by the Department of
- 6           Health Care Access and Information (HCAI).

7

8 Mr. Scheuerman communicated how to apply Robert's Rules of Order:

- 9           ● Standards for Board conduct:
  - 10           ○ Influences:
    - 11           ▪ Bagley-Keene Act:
      - 12           □ Statutory conduct requirements for state boards, etc.
    - 13           ▪ HBSB Policies and Procedures (P&P).
    - 14           ▪ Specific to HBSB; sets forth operating practices.
    - 15           ▪ Duties of the Board Chair and Board Vice Chair as described.
    - 16           ▪ Formation of committees and duties and responsibilities of Committee
    - 17           Chairs and Committee Vice Chairs.
    - 18           ▪ Robert's Rules of Order.
    - 19           ▪ Official method of conduct per HBSB P&P VII.B.

20

21 Mr. Scheuerman detailed what Robert's Rules of Order are:

- 22           ● Copyrighted by Robert's Rules Association.
- 23           ● An organized method for meeting conduct ("Parliamentary Procedure"):
  - 24           ○ Maintains the integrity of the agenda ("Order of the Day for the Conduct of
  - 25           Business").
  - 26           ○ Provides methods to determine the will of the majority (voting).
  - 27           ○ Protects the rights of the minority (debate).

28

29 Mr. Scheuerman explained the Conduct of the Agenda:

- 30           ● Call to order (initialization of the agenda):
  - 31           ○ Roll call - determination of quorum.
  - 32           ○ Issuance of advisories and meeting expectations.
- 33           ● Conduct the agenda:
  - 34           ○ Receive reports
  - 35           ○ Conduct business
  - 36           ○ Special presentations
- 37           ● Determine breakpoints:
  - 38           ○ Recesses (NOT "adjourn for lunch")
  - 39           ○ "Meeting at ease"
- 40           ● Request for general public comments as the last item before adjournment
- 41           ● Adjourn (hard end, no further conduct)

- 1 Mr. Scheuerman described the Principal Categories of Motions:
- 2 • A “motion” is a formal proposal made by a member of the body (other than the
- 3 Chair) in a meeting upon which the group takes certain action. Principle
- 4 categories include:
- 5 ○ Main Motion - brings principal business before the body:
- 6     ▪ Subsidiary Motion - amendments to main motions.
- 7 ○ Incidental Main Motions and Privileged Motions:
- 8     ▪ Secondary types of motions and actions not requiring solicitation from the
- 9 Chair.
- 10 • Main Motions:
- 11 ○ The Chair determines if a main motion is “In Order”:
- 12     ▪ Motion must be made by a voting member.
- 13     ▪ Motion must be specific in intent and verbiage.
- 14     ▪ Must be germane to the agenda item.
- 15     ▪ A “second” is required for a motion to become actionable if is determined to
- 16 be in order.
- 17 • Making a Main Motion:
- 18 ○ A member requests recognition and awaits the Chair’s action.
- 19 ○ When recognized, the member says: “I move...” and states the precise
- 20 verbiage of the motion.
- 21 ○ Chair determines if motion is in order.
- 22 ○ If in order, Chair calls for a second.
- 23 ○ If seconded, Chair determines if the intent and language of the motion are
- 24 clear.
- 25 ○ Chair then states: "It is moved and seconded that..." repeating the motion
- 26 verbatim.
- 27 ○ Chair calls for debate on motion.
- 28 • Debate versus discussion:
- 29 ○ An issue cannot be debated until a motion and second have been made and
- 30 recognized by the Chair.
- 31 ○ Debate is on whether a motion as stated should be adopted (approved or
- 32 rejected by vote).
- 33 ○ Questions to presenters, and discussion and dialog during an agenda item for
- 34 the purpose of understanding and clarity of meaning, and surfacing differences
- 35 of opinion between members, which may or may not lead to a motion, is not
- 36 considered debate.
- 37 • Debate:
- 38 ○ Chair opens debate by stating a motion is “on the floor”.
- 39 ○ Chair recognizes each member wishing to speak to the motion:
- 40     ▪ May limit each speaker’s time at outset.
- 41     ▪ Offers first comments to the maker of the motion.
- 42     ▪ Attempts to rotate between support and opposition.

- 1           ▪ Ensures fairness to members wishing to speak.
- 2           ▪ Determines that debate is germane to the motion (no off-topic discussion
- 3           during debate).
- 4           ▪ Ensures that debate is not personal - speaker addresses the Chair.
- 5       ○ Debate continues until Chair determines it is exhausted (no more speakers or
- 6       lapse into redundancy).
- 7       ● Amending a Main Motion:
- 8       ○ A member may wish to amend motion prior to voting. A Motion to Amend is a
- 9       Subsidiary Motion. The rules for amending a motion are the same as making a
- 10       motion.
- 11       ▪ Maker provides specific language to be added or deleted from a motion on
- 12       the floor and where the precise location the new language is to be placed.
- 13       ○ Voting on amendment is conducted the same way as the main motion, it
- 14       occurs before final action.
- 15       ○ Chair can accept a “friendly amendment” to a motion on the floor if acceptable
- 16       by the maker and the second; however, this is done outside of Robert’s Rules
- 17       at the discretion of the Chair for the sake of the Order.
- 18       ▪ For example, there were motions made to adopt the report as amended,
- 19       but no motion to amend the report. What you were actually moving, was to
- 20       adopt the report as corrected, and we determined that during our
- 21       discussion. An amendment to a report would require a motion to amend
- 22       and that means there is something substantively wrong or missing from the
- 23       report that needs to be formally added.
- 24       ● Voting on a Main Motion:
- 25       ○ Chair asks the body, “Are you ready for the question?” “Question” is the vote
- 26       on the motion.
- 27       ○ If confirmed, the Chair announces, “The question is on adoption of the motion
- 28       to... (restates the motion verbatim).”
- 29       ○ Chair calls the vote and asks the Executive Director to poll eligible members
- 30       for their vote:
- 31       ▪ Yes, no, or abstain.
- 32       ▪ Maker of the motion must vote in favor; seconder is not required to vote in
- 33       favor.
- 34       ○ Executive Director announces count of votes. Chair determines and states
- 35       which side “has it” (motion carries or motion is defeated) based on a simple
- 36       majority (50% + one of eligible members counted in the quorum call).
- 37       ○ Chair determines if passage of the motion affects the Order or goes to the next
- 38       item.
- 39       ● HBSB Common Main Motions:
- 40       ○ Motion to approve minutes of prior meetings.
- 41       ○ Motions to adopt board operations proposals:
- 42       ▪ Committee formation, mission, membership, and goals.

- 1           ▪ Annual calendar.
- 2           ▪ Motion to recommend action on information contained in presentations.
- 3           ○ Motion to adopt committee report, or to individually concur in committee
- 4           motions.
- 5       ● Subsidiary Motions:
- 6           ○ Refer the matter back to the committee.
- 7           ○ Tabling a Motion and Postponements:
- 8           ▪ Temporary
- 9           ▪ Time certain
- 10          ▪ Indefinite
- 11          ○ Limit debate.
- 12          ○ Previous question (a formal vote ending debate).
- 13       ● Privileged Motions:
- 14          ○ Adjourn the Meeting:
- 15           ▪ Superior motion; not debatable and requires a vote:
- 16             Excludes a vote to “adjourn (dissolve) the body”.
- 17          ○ Take a recess.
- 18          ○ Raise a Question of Privilege:
- 19           ▪ Request for “Points”.
- 20             Order - request for Chair to determine if current action is consistent with
- 21            the agenda.
- 22             Other points that support the rights of the member of the body.
- 23       ● Committee Conduct:
- 24          ○ Committees, subcommittees, and other groups working on behalf of the Board
- 25          and are required to follow all rules that affect conduct of the Full Board.
- 26          ○ Actions of a committee cannot bind the Board. Motions adopted by a
- 27          committee are reported as recommendations to the Full Board and come in
- 28          the form of a motion to adopt.
- 29       ● Committee Reports:
- 30          ○ Committee chairs conclude their presentations with a motion to accept the
- 31          report of the committee. The committee chair speaking for the entire
- 32          committee in making the motion.
- 33          ○ Motion must occur in the recommendation of the committee and the committee
- 34          report must be seconded by a member not participating in the adoption of the
- 35          recommendation, as the committee members’ action is already incorporated in
- 36          the motion to adopt the committee report.
- 37       ● Common Committee Motions:
- 38          ○ HCAI staff request for endorsement or guidance on code or program
- 39          development issues.
- 40          ○ Motion to recommend further board action on information contained in
- 41          consultant presentations.

- 1           ○ Motions to request HCAI action on issues presented by others.
- 2       ● Adjournment:
- 3           ○ Final action of the Order, signifying its end:
- 4           ▪ Principal authority of the Chair, may be unilaterally declared at any time; or
- 5           ▪ Chair may request a Motion to Adjourn which must be voted upon,
- 6           ▪ Privileged motion from the floor made at any time, must be voted upon.
- 7           ○ No further business allowed for declaration of adjournment.

## 9       **Discussion and input**

10       Mr. Griffiths asked how Board members can rule on appeals if HBSB is an advisory, not  
11       oversight Board. Mr. Scheuerman responded that it is an additional duty set in statute,  
12       above the advisory duty of the Board.

13  
14       Dr. Catherine Sullivan disclosed that she would like to be an advisor to the Board and  
15       asked how best to accomplish that. Ms. Belair replied that Board members are appointed  
16       to specific representative positions on the Board, which are listed in the HBSB roster.  
17       When appointed members reach their term limit, HCAI reaches out to specific California  
18       organizations to request nominations. Ms. Belair explained that all HBSB meetings are  
19       open to the public and there are various avenues to get involved, including participating  
20       in meetings as a member of the public. She added that there are also consulting  
21       members invited to participate at the Committee level and those are usually suggested  
22       by the Committee Chair, Board Chair, or Committee Members.

23  
24       Mr. Malley asked how the Bagley-Keene Act applies to committees versus the Full  
25       Board? Mr. Gray responded that it applies the same to the committees and the Full  
26       Board.

27  
28       Mr. Foulkes asked if one's personal residence, vacation home, and rental property must  
29       be disclosed on the Form 700. Mr. Gray replied that one's personal residence does not  
30       have to be disclosed, but all other properties do, including rental property.

## 31 32       **Information and Action item**

- 33       ● None

## 34 35       **14. Comments from the Public/Board Members on issues not on this agenda**

36       **Presenters:** Louise Belair, Board Chair

37  
38       Ms. Belair noted the future Full Board meetings are scheduled for:

- 39       ● August 17, 2023, in Sacramento
- 40       ● December 6-7, 2023, in Los Angeles

1 **Discussion and input**

2

3 Ms. Belair gave her thanks to everyone for their participation and said she was looking  
4 forward to the work on the committee levels, including the Education and Outreach  
5 Committee for their upcoming fall seminar.

6

7 **Information and Action item**

- 8
  - None

9

10 **15. Adjournment**

11 Ms. Belair adjourned the meeting on April 20, 2023, at approximately 3:45 p.m.

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# Energy Conservation and Management Committee

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Draft Meeting Report/Minutes

March 16, 2023



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



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

**Thursday, March 16, 2023  
10:00 a.m. – 4:00 p.m.**

**Teleconference Meeting Access:**

[HBSB Teams ECM Committee](#)

Access Code: 481-147-085

**Committee Members Present**

Scott Jackson, Committee Chair  
John Griffiths, Vice-Chair  
Louise Belair  
David Bliss  
Deepak Dandekar  
Gary Dunger  
Michael Foulkes  
David Khorram

**HCAI Staff Present**

Chris Tokas, FDD Deputy Director  
Richard Tannahill  
Arash Altoontash  
Larry Enright  
Carl Scheuerman  
Jamie Schnick  
Nanci Timmins  
John Grey

**Consulting Member Present**

Eric Johnson

**HBSB Staff Present**

Evet Torres  
Veronica Yuke

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

2 Scott Jackson, Committee Chair, called the meeting to order on March 16, 2023, at  
3 10:00 a.m., and HBSB, Veronica Yuke called roll.

4

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

2 Six 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 public announcement regarding COVID-19, meeting rules and  
6 procedures.

7  
8 **3. Aircuity Hospital Applications**

9 **Presenter:** Dan Diehl, Aircuity Inc.  
10

11 Mr. Kolsun stated that Aircuity uses accurate IAQ measurements and control to  
12 optimize ventilation in healthcare and sustainable building. He explained that Aircuity  
13 optimizes air flow by utilizing air quality and operating results in healthcare settings.

14 Mr. Kolsun said that Aircuity in healthcare apply best in;

- 15 • Operating Room Suites
- 16 • Infectious Control Suites
- 17 • Procedure Rooms
- 18 • Pharmacies
- 19 • Invitro Centers
- 20 • Laboratories

21  
22 Mr. Kolsun said that Aircuity uses sensors in a central panel to know air quality in a  
23 building to optimize ventilation. He mentioned that Particle Sensing was the most  
24 important parameter in many healthcare applications.

25 Mr. Kolsun highlighted that Aircuity enables a Clean Stand-by Mode, where, when the  
26 room is unoccupied, it could be turned down to 4 ACH, but with active monitoring to  
27 ensure that the room is always clean and ready for use.

28  
29 **Discussion and Input**

30  
31 Mr. Jackson asked if Aircuity system had an impact on the design of room ventilations.  
32 Mr. Kolsun replied that it does by getting the right design for the right room.

33  
34 Mr. Enright asked if Aircuity applied ASHRAE 189.3 code requirement. Mr. Kolsun  
35 answered that Aircuity applies codes in their technology.  
36

1 Ms. Belair asked if Aircuity had a value system that gave a picture of the company, like  
2 a white paper. Mr. Kolsun answered that he would find out whether there was any  
3 available information then get it back to the committee.

4  
5 Ms. Belair asked how many Aircuity installations were available in healthcare settings.  
6 Mr. Kolsun stated that he would get the number of listings that were available and avail  
7 them to the committee.

8  
9 **Informational and Action item**

- 10 • None  
11

12 **4. Supply Chain and Climate Impacts on Health Care Design and Construction**

13 **Presenter:** John Griffiths, Committee Vice-Chair  
14

15 Mr. Griffiths listed the Energy Conservation and Management Committee focus/ goals:

- 16 • Work with CEC to develop mutually agreeable standards for hospital building  
17 energy efficiency in 2025 code cycle.  
18 • Identify HCAI research projects for energy conservation, reduction of carbon  
19 footprint, and cost savings while maintaining health and safety.  
20 • Identify how to collaborate with CMS for implementation Microgrid  
21 demonstration project.  
22 • Pursue indoor air quality at a lesser energy cost for healthcare.  
23 • Water usage in healthcare environments. Efficiency/Sustainability  
24

25 Mr. Griffiths talked about the impacts on climate change

- 26 • Climate Design Temperatures - Equipment failing in the heat and cold waves;  
27 are not designed to operate at these temperatures.  
28 • Sea Level Rise- New and existing projects are being required to meet sea  
29 level rise legislation.  
30 • Drought and Flood Conditions  
31 • Wildfire Smoke and Poor Air Quality  
32

33 Mr. Griffiths discussed the Supply Chain Impacts on Healthcare Construction, Design  
34 and Maintenance.

- 35 • Project and maintenance delays, or cancellation

- 1 • Temporary workarounds to keep facilities operating.
- 2 • Risk by not replacing critical components.
- 3 • Facilities use more energy because the current commission install and run
- 4 them.
- 5 • Making items more expensive – reducing scope.
- 6 • Use of aftermarket equipment.

7

## 8 **Discussion and Input**

9 Dr. Bliss asked if refurbished equipment could be shake table tested, seismic certified to  
10 be used. Mr. Schnick replied that CEC 2022 addresses the issue on equipment  
11 refurbishment.

12

13 Mr. Griffiths asked if CEC 2022 was still awaiting comments. Mr. Schnick answered that  
14 there would be a webinar addressing the code changes.

15

16 An interested party suggested that HCAI address preventive measures on emergency  
17 backup power and climate impacts.

18

19 Mr. Schnick said that if a product or equipment were refurbished, the manufacturer  
20 would re-label the product as it was originally.

21

22 Mr. Jackson mentioned that in old buildings, where there are generators which are not  
23 currently manufactured, using refurbished parts in case of a breakdown, repair, or  
24 maintenance.

25

26 Mr. Griffiths asked if there were code requirements for designing facilities above  
27 floodplains and sea level. Mr. Tokas said the code requirements were discussed in  
28 chapter 16 but there had to be appropriate protection to accommodate the flood heights  
29 as discussed by the site-specific studies.

30

31 An interested party asked if the committee was interested in discussing how the code  
32 addressed decarbonization. Mr. Jackson answered that the committee discussed issues  
33 related to healthcare and healthcare facilities so decarbonization would be up for  
34 discussion if it related to healthcare and healthcare facilities.

35

36 Mr. Griffiths suggested having a future presentation from the energy commission.

37

38 Mr. Jackson concluded that the committee would come up with a simple topic that dealt  
39 with climate change affecting HCAI projects to be presented to the Full Board.

1 **Information and Action item**

- 2 • None.

3

4 **5. Upcoming topics for future meetings in 2023**

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

6

7 Mr. Jackson mentioned that upcoming topics for future meetings were:

- 8 • Research applications for Aircuity Inc. in California Universities  
9 • Code changes that affect Skilled Nursing Facilities

10

11 **Discussion and input**

- 12 • None.

13

14

15 **Information and Action item**

- 16 • None.

17

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

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

20 Mr. Jackson thanked the committee members for their participation and input in the  
21 meeting.

22

23 **Discussion and input**

24 Future Energy Conservation and Management Committee meetings:

- 25 • June 22, 2023  
26 • October 5, 2023

27

28 **Information and Action item**

- 29 • None.

30

31 **7. Adjournment**

32 Mr. Jackson adjourned the meeting on March 16, 2023, at approximately 12:02 p.m.

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# Structural and Nonstructural Regulations Committee

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Draft Meeting Report/Minutes

April 11, 2023



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



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

**Tuesday, April 11, 2023  
10:00 a.m. – 2:00 p.m.**

**Teleconference Meeting Access:**

[HBSB Teams SNRS Committee](#)

Access Code:

**Committee Members Present**

Jim Malley, Chair  
Farzad Naeim, Vice Chair  
Cody Bartley  
Louise Belair  
Bruce Clark  
Mark Hershberg  
Marshall Lew  
Jennifer Thornburg

**HCAI Staff Present**

Arash Altoontash  
Mike Hooper  
Joe LaBrie  
Roy Lobo  
David Neou  
Carl Scheuerman  
Ali Sumer  
John Gray

**HBSB Staff Present**

Ken Yu, Executive Director  
Evet Torres

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

2 Jim Malley, Committee Chair, called the meeting to order on April 11, 2023, at 10:00  
3 a.m., and HBSB Executive Director Ken Yu 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 at  
7 the time of roll, a quorum was established.  
8

9 Mr. Yu read the meeting rules and procedures.

1 **3. Review and approve the draft November 7, 2022, meeting report/minutes**

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

3  
4 **Discussion and input**

5 Mr. Yu raised a question about Mr. Scheuerman's last name being spelled incorrectly  
6 and requested it be corrected throughout the document. Mr. Malley stated it would be  
7 corrected.

8  
9 **MOTION:**

10 The committee voted in favor of approving the meeting notes from November 11, 2022,  
11 and to correcting Mr. Scheuerman's last name throughout the document.

- 12 • Farzad Naeim, Vice Chair - Yes
- 13 • Cody Bartley - Yes
- 14 • Louise Belair - Yes
- 15 • Bruce Clark - Yes
- 16 • Mark Hershberg - Abstain
- 17 • Marshall Lew - Yes
- 18 • Jennifer Thornburg - Yes

19  
20 **4. Findings and Lessons Learned from the Turkey Earthquake**

21 **Presenter:** Ali Sumer, HCAI; and Maryann Phipps, Estructure

22  
23 Mr. Sumer stated the earthquake in Turkey February 6, 2023, caused more than 50,000  
24 deaths as of February 23, 2023. The first earthquake to strike was a Max. PGA: 1.23g  
25 and the second earthquake was .65g (METU).

- 26 • The first earthquake was a 7.8 magnitude event occurring at 4:17 a.m. on  
27 February 6, 2023. It shook almost 1/3 of the country and also affected Syria.
- 28 • There was an aftershock event eleven minutes later, and it was a 6.7 event, and a  
29 total of almost 6 more aftershock events followed.
- 30 • Nine hours later, the second earthquake event took place. It was a 7.5 magnitude  
31 event.
- 32 • Two weeks later, another 6.3 magnitude event.

33  
34 Mr. Sumer presented a chart showing the current building damage status:

- 35 • Collapsed - 35,355 or 2%
- 36 • Urgent Demolition - 17,491 or 1%
- 37 • Severe - 179,786 or 11%
- 38 • Moderate - 40,228 or 2%
- 39 • Lightly Damaged - 431,421 or 25%
- 40 • Undamaged - 860,006 or 50%
- 41 • Not Assessed - 147,895 or 9%

1 Mr. Sumer expressed that the purpose of the reconnaissance effort was to learn about  
2 the shaking affecting modern engineered buildings and the ability of a large set of strong  
3 motion records. They focused on structural and nonstructural performance of the  
4 affected hospitals, to gather the observations data, and think about how to improve the  
5 design, construction and practices, and hopefully look at building code, seismic  
6 guidelines, construction, and inspection practices.

7

8 Mr. Sumer stated they gathered the following information from thirty-three hospitals:

- 9 • Size
- 10 • Private/government/university
- 11 • Fixed base vs. base isolated
- 12 • Various construction years
- 13 • Ground motion record station
- 14 • Correlating record vs. surrounding damage

15 They gathered information by way of:

- 16 • Internet searches
- 17 • Drive-by
- 18 • Walk-by
- 19 • Inside visits
- 20 • Interviews

21

22 Ms. Phipps commented that the electricity was out and restored within 1-7 days in the  
23 most heavily affected areas; the water was out and restored after a few weeks,  
24 depending on the location affected; the gas was not restored at the time of their visit; and  
25 communications were restored quickly.

26

27 Ms. Phipps commented on the nonstructural performance of the buildings:

- 28 • Cladding: consisted of unreinforced masonry, covered in plaster, initially resisted  
29 some load, but cracked-up and dislodged. It was very brittle, and this damage was  
30 very common.
- 31 • Marble/stone: mechanically anchored, but then started to spall and fell apart.
- 32 • Curtainwall: light system (common in the U.S.) that performed well.
- 33 • Partitions: nearly all partitions were unreinforced masonry infill; it was brittle and  
34 sustained a lot of damage.
- 35 • Ceilings: suspended wall-board ceilings and acoustic tiles (similar to the U.S.) but  
36 no bracing was observed. The ceiling grid, lights, etc. came down.
- 37 • Egress: stairs that were not properly reinforced crumbled. The elevators had  
38 seismic switches that shut off automatically and required an elevator technician to  
39 return to turn them back on. Some damage was noted to the elevators.
- 40 • Equipment: in older hospitals, nothing was anchored inside, however, there was a  
41 lot of equipment, at grade, that showed no evidence of movement. The newer

1 hospitals' equipment was anchored and no damage to anchored equipment was  
2 observed. Bulk oxygen storage tanks were unmoved, and it was noted that long,  
3 deep anchored systems worked the best.

- 4 • Distribution systems: piping systems did not appear to be braced, however, not a  
5 lot of visual damage was noted, however, the water systems were turned off at  
6 the time. Flex lines were noted and seemed to hold up well.
- 7 • Medical equipment: most of the anchored equipment did not move. Whether it is  
8 useable after the earthquake is still under review. Many things will need to be  
9 recalibrated by a specialized technician. Data cabinets, though lightly restrained,  
10 remained in place. Suspended monitors, hung but not laterally braced, performed  
11 well. OR booms, anchored for gravity loads but not braced for lateral loads,  
12 performed well. A sterilizer that was unanchored shifted and broke the water and  
13 electrical connections. In the IVF clinic, incubators fell off the counter, bio safety  
14 cabinet hood fell off, microscopes fell off tables, and the incubators did not work.  
15 Furnishings and contents such as lockers and blood samples, fell over.

16  
17 Mr. Sumer commented that California currently has 3,000 general acute care buildings  
18 with structural and nonstructural ratings and the target date to be ready for a large-scale  
19 earthquake is 2030.

20  
21 Mr. Sumer commented on their takeaways and reflections of the event. Hospitals are the  
22 first building type everyone thinks about in a disaster because this is the most needed  
23 service after an earthquake. There was some good performance from unanchored  
24 equipment, but they are still trying to categorize. Unbraced MEP distribution systems  
25 remained in place most of the time, but they are unsure if they will function properly after  
26 the utilities are restored. Unbraced ceilings that were either partially or completely  
27 collapsed is a concern, and heavy partitions and adhered masonry showed poor  
28 performance overall.

29  
30 Mr. Sumer stated that all hospitals in California have an emergency operation plan  
31 (EOP), but that timely, appropriate (not too conservative) safety assessments matter  
32 greatly.

33  
34 Ms. Phipps commented on the resilience strategies. Before the earthquake:

- 35 • Pre-planning for structural evaluation of post-earthquake building conditions.
- 36 • Exercise emergency generator and provide redundancy where possible.
- 37 • Construct on-site wells where possible or provide large storage tanks.
- 38 • Limit use of brittle materials.
- 39 • Prepare for elevator shutdown.
- 40 • Prevent nonstructural damage by anchoring and bracing of nonstructural  
41 equipment.

- 1 • Be prepared to repair wall cracking as soon as possible; have materials on hand.
- 2 • Have trained medical teams with equipment and trucks set up field hospitals near
- 3 damaged hospitals.

4 After the earthquake:

- 5 • Have on-call, experienced structural engineers.
- 6 • Staff tend to evacuate. If evacuation decision is made, shutting down a hospital
- 7 cannot easily be undone.
- 8 • Repair nonstructural wall cracks quickly to assuage staff and patient concerns.
- 9 ○ Psychological concern is big.

## 11 Discussion and Input

12 Mr. Lizundia commented on the complexity of recovery; it is trickier than expected. There  
13 is not an on/off switch. The notion of recovery for all buildings is more complex, subtle,  
14 and multi-faceted than expected. It is understandable how afraid people are, from how  
15 they think and experience the event.

16  
17 Mr. Wray commented that we tend to evaluate these buildings and assign SPC and NPC  
18 categories to seismically deficient buildings. It was very hard to separate where one  
19 building starts and one stops, and how one building might affect another.

20  
21 Mr. Malley asked, on the nonstructural, if they use fire sprinklers. Ms. Phipps replied that  
22 they do use sprinklers and they often use flex heads.

23  
24 Mr. Malley requested clarification regarding the fixed base hospital built in 2020, in  
25 Pazarcik. He believed Turkey required hospital construction by that date, be isolated and  
26 noted that it looked like a big, fixed base hospital. Mr. Sumer explained that the nuance  
27 was the number of beds vs. when the project was started. The project started much  
28 earlier than the law, and construction went on longer. Some projects were grandfathered  
29 in without isolation if they started prior to the law going into effect.

30  
31 Mr. Malley asked about nonstructural performance between isolated vs. fixed base;  
32 assuming isolated buildings do much better, was that indeed the case. Ms. Phipps  
33 replied that she believed there was much less nonstructural damage in the isolated  
34 hospitals. She said she believed it is an excellent tool to reduce nonstructural damage,  
35 particularly where the nonstructural damage was driven by the brittle partition walls.  
36 Ms. Phipps went on to say that anything that can be done to reduce that damage would  
37 put you way ahead. It was effective, however, there was not a base isolated hospital  
38 near a fixed base hospital to see how they compared side-by-side.

39  
40 Mr. Sumer commented that in general, based hospitals did very well. The amount of  
41 seismic demand was not as high as the epicenter, but it was significant.

1 Mr. Lizundia commented that one of the new isolated hospitals was a beautiful building  
2 from the outside and inside, and that a lot of money was put into it. Yet, the isolation  
3 plane in numerous locations, did not provide the ability for displacement to occur across  
4 the isolation plane. Weather it was partitions, plumbing lines, sprinkler lines, etc. He  
5 remarked that the level of quality assurance special inspection, nonstructural design by  
6 an engineer in Turkey, is a lot less than what is required in California. Mr. Lizundia  
7 believed that underscored the value of what HCAI does in the field in making sure things  
8 are built the way engineers designed them and that standards are followed because  
9 there was an otherwise spectacular building that was missed, and the damage was  
10 disappointing.

11

12 Mr. Lobo asked Ms. Phipps if when the OR booms were not braced but held in place,  
13 they may have knocked something else out while that was happening. The boom may  
14 have remained, but if everything else was lying around it, they really must be braced.  
15 Ms. Phipps explained that she was not suggesting that bracing be eliminated but thinks  
16 overemphasis on the exact design load is less important than making sure there is a  
17 scope of things that need to be anchored correctly and having them secured.

18

19 Mr. Kara (Turkish medical doctor part of the EERI team) commented how important it is  
20 to take the needs of medical staff into account as well, and that first responders are also  
21 the victims of an earthquake. They are expected to continue working, and to respond in  
22 unexpected and unusual conditions. Making them feel safe and believe in the buildings'  
23 structure will affect the success of the response.

24

25 Mr. Malley thanked everyone for what they brought to the team and the tremendous  
26 amount of information they gathered.

27

28 Break for lunch at 12:50 p.m.

29

### 30 **5. Updates to Policy Intent Notice (PIN) 62, OSHPD Preapproval of Manufacturer's** 31 **Certification (OPM)**

32 **Presenter:** Roy Lobo and Jeffery Kikumoto, HCAI

33

34 Mr. Lobo announced that PIN 62 is being updated, which previously referenced the 2016  
35 California Building Code (CBC), to now reference the 2022 CBC. Both the 2019 CBC  
36 and 2022 CBC adopt ASCE 7-16. The changes between 2019 and 2022 are very  
37 minimal with regards to OPMs. There was a section added to the California  
38 Administrative Code (CAC) 7-115(d).

39

40 Mr. Lobo stated that the 2025 CBC will adopt ASCE 7-22. There is a big change from  
41 7-16, which is the force equation from nonstructural components. He stated all OPMs will  
42 need to be updated, however, the capacity will remain the same. Anyone submitting for



1 an OPM should be aware the force equation will need to be included in both the 2022  
2 CBC and the 2025 CBC.

3 Mr. Lobo detailed the following changes to PIN 62:

- 4 • 2016 CBC will change to 2022 CBC, Section 1705A throughout the document.
- 5 • 13.2 will change to 14.2 throughout the document.
- 6 • ASCE/SEI 7-10 will change to ASCE/SEI 7-16 throughout the document.
- 7 • 1616A will change to 1617A throughout the document.
- 8 • Certification Basis: language will be added to #5. For sway bracing assemblies,  
9 component tests shall be supplemented by assembly tests when required by the  
10 building official.
- 11 • Implementation for OSHPD Projects: will add language to #9. Incorporation by  
12 either inclusion in its entirety or in part, and by reference will be removed.  
13 Language will be added that preapprovals must be incorporated without any  
14 modification. Non pertinent preapproval sheets, sections, details, or notes shall be  
15 struck or otherwise noted.
- 16 • Layout Drawings: language will be added to #11(A)(a). Architect or Structural  
17 Engineer.
- 18 • Layout Drawings: language will change to #11(A)(b). Architect or Engineer, and  
19 “Structural” and “of Record” will be removed.
  - 20 ○ This proposed change is because minor things can be done by the  
21 architect or a general contractor. It does not need to be a Structural  
22 Engineer of Record.
- 23 • Validity: language will change on #14 exception. 2013 to say 2019 CBC, or 2016 to  
24 say 2022 CBC.
- 25 • OPM Application Submittal Requirements: the email has been updated on #17.  
26 OPM@hcai.ca.gov.
- 27 • OPM Application Submittal Requirements: language has been changed #17(b).  
28 OSHPD has been removed and replaced with HCAI.
- 29 • Original signed changes from Paul Coleman to Chris Tokas and the date will  
30 change from 2016 to 2023.
- 31 • Language has been added to include the CAC 7-115 for 2022.
- 32 • CBC language has been changed from bracing, to bracing components. And  
33 language has been added to say or using an alternative testing protocol approved  
34 by the building official.
- 35 • In the FAQ: language has changed on #10. CBC to CEBC. And Section 3401A.4.1  
36 is deleted and changed to Chapter 3A §302A.3.
- 37 • In the FAQ: language has been added at #5. Can OPM, based on 2016 CBC be  
38 used on projects governed by the 2013 CBC? The code year has been updated to  
39 2022 and applies to projects under the 2013/2016 or 2019 CBC. Also, note,  
40 2013/2016 CBC based on OPMs must first be updated to the 2022 CBC in order to  
41 use on 2022 CBC based project requirements.

1 **Discussion and Input**

- 2 • None.

3

4 **Information and Action item**

- 5 • None.

6

7 **MOTION: [Bartley/Thornburg]**

8 The committee voted unanimously to support adopting the changes and for the OPM as  
9 it relates to PIN 62.

10

11 **6. Testing Criteria for Allowable Load Rating of Vibration Isolators**

12 **Presenter:** Roy Lobo and Timothy Piland, HCAI

13

14 Mr. Lobo stated that these are isolators that support chillers, generators, and other things  
15 like this, for vibration control. A lot of these isolators may not have been seismically rated  
16 and there is a need to figure out what is the best rating system to use.

17

18 Mr. Lobo commented that the requirement in Section 13.2.1 of ASCE 7 for nonstructural  
19 components, supports, or attachments are met by manufacturer's certification based on  
20 testing, analysis, or experience. The OPM does not do equipment approval, but if the  
21 equipment is sitting on an isolator, then those isolators can be qualified through this  
22 program.

23

24 Mr. Lobo explained that FM 1950 is for sway bracing but there are no real criteria for  
25 testing vibration isolators. ASHRAE 171 is the new standard for rating nonstructural  
26 components for wind and seismic restraints, but it is not adopted by the current code.  
27 The new ASCE 7-22 force equation demands will now be part of the 2025 CBC, which  
28 change the demand significantly.

29

30 Mr. Lobo listed some key takeaways:

- 31 • Seismic Force-Resisting System: Same component responds very differently in  
32 different seismic force-resisting systems. Depending on the PCA/PGA and  
33 materials, the component ratings will be different. Based on the data obtained, a  
34 reinforced concrete building compared to a steel building will have different ratings.
- 35 • Building Model Periods  $T_{n,bldg.}$ : Longer period means less amplification. Cantilever  
36 systems have more "whipping" action.
- 37 • Component Period  $T_{comp}$ : Normalized x-axis is helpful to understand the influence  
38 of building component response.
- 39 • Component/Anchorage Ductility,  $\mu_{comp}$ : Ductility substantially reduces component  
40 response, particularly at resonance.

41

1 Mr. Lobo posed the question, “What criteria should be used for rating of vibration  
2 isolators?” The CBC permits alternative testing protocols approved by the building official  
3 for establishing rating capacities of nonstructural components.

4  
5 Mr. Lobo posed the question, “What is the effect of loading protocol?”

- 6 • Monotonic testing:
  - 7 ○ Does not provide fatigue and the cyclic behavior of the components.
  - 8 ○ You can get different behavior from cyclic to monotonic.
  - 9 ○ We are trying to see how to use this information with the testing they are  
10 going to be doing, but it is not tested yet.

11  
12 Mr. Lobo stated some common trends:

- 13 • One-sided response at “large” drifts.
- 14 • Few “large” excursions; mostly less than 3 “large” drift excursions.
- 15 • More like “monotonic” as opposed to “numerous fully reversed cycles”.

16  
17 Mr. Lobo posed the question, “Why bother with loading protocols?”

- 18 • Objectives of testing:
  - 19 ○ Evaluation of behavior.
  - 20 ○ Study of damage and failure modes.
  - 21 ○ Development of design/detailing criteria.
  - 22 ○ Analytical modeling.
- 23 • Dilemmas:
  - 24 ○ Single test should represent many different conditions existing in a  
25 structure.
  - 26 ○ The demands imposed by ground motion on the structure depend strongly  
27 on structural characteristics.
  - 28 ○ The imposed demands are a function of ground motion characteristics,  
29 which depend strongly on soil type, source-to-site distance, and many  
30 other geophysical parameters.
  - 31 ○ Various performance levels of interest, from immediate occupancy to  
32 collapse.
  - 33 ○ Loading history is never “right”.

34  
35 Mr. Lobo commented on the impact of damping on seismic demand on nonstructural  
36 elements: the more damping you have, the more reduction you will get in your response.  
37 Having some amount of ductility is helpful, and the more ductility you have, the more  
38 your response changes for the better. That protects the system, and it protects the  
39 anchorage to the concrete, bolts, etc. We are not doing the right amount of anchorage.  
40 Ultimately, the desire is to keep the cost low with the highest performance.

1 Mr. Lobo mentioned that they are trying to work with the manufacturers to capture the  
2 ductility. If they have the ductility rating at 1.6, then they do not need to lower the  
3 capacity rating. However, if they find the ductility rating was greater than 1.6, they get  
4 some benefits.

5  
6 Mr. Lobo stated that the plan is to put this on the website so the manufacturers can come  
7 to HCAI with their plan to qualify and rate these vibration isolators. If they have  
8 comments they can send them to HCAI, we can present it to the board, and see if  
9 comments come back.

10

### 11 **Discussion and input**

12 Mr. Malley asked about the ASCE 7-22 approach and trying to add some information for  
13 the manufacturers to better apply it in a way that will be acceptable to HCAI. Mr. Lobo  
14 responded that HCAI wants them to take maximum advantage of what the isolator can  
15 provide. Also, that there are different performance objectives such as IO, LS, CP, etc.  
16 We need to know at which state in the testing criteria does it stop acting as an isolator  
17 and want to capture that information, as well as the ductility.

18

### 19 **Information and Action item**

20 The documents will be added as part of the meeting minutes.

21

### 22 **MOTION: [Bartley/Thornburg]**

23 The committee voted unanimously to support moving forward with testing the market  
24 with the revised criteria for allowable load rating of vibration isolators.

25

## 26 **7. Committee Goals for 2023**

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

28

29 Mr. Malley gave a review of Structural and Nonstructural Regulations Committee goals  
30 for 2022:

- 31 • Support HCAI with review of code changes (ongoing).
- 32 • Support HCAI with review of new/revised PINs, CANs, and OPDs (ongoing).
- 33 • Implementation of SPC-4D and NPC-4D (the goal was removed by the  
34 committee).
- 35 • Issues regarding repurposing hospital buildings (ongoing).
- 36 • Develop pre-approved details (moved to 2023 goal).
- 37 • Revisit NPC-5 requirements (goal was removed).

38

39 Mr. Malley gave a list of potential committee goals for 2023:

- 40 • Seismic compliance issues related to NPC-3, NPC-4D, and NPC-5.  
41 Streamlining the compliance process to meet deadlines.

- 1 • Review of the Code amendments that are now obsolete or may have been  
2 addressed in the model code. Be ready to pull those out in the next revision.
- 3 • Develop and implement procedures and enforceable building standards to  
4 ensure safe and sustainable healthcare facilities.
- 5 • Encourage the introduction of new products, materials, and methods that  
6 would benefit the public by early adoption rather than wait for their  
7 incorporation in the building code.
- 8 • Increase IOR competency.
- 9 • Implementation of small and rural relief program and increase technical  
10 assistance awareness.
- 11 • Implementation of AB 1882 requirements. Reach out to stakeholders via  
12 seminars and webinars to raise awareness.
- 13 • Training and outreach to industry code changes and tips for working with  
14 HCAI. In-person training meetings were highly requested.

15

### 16 **Discussion and input**

17 Mr. Malley asked how best to streamline the seismic compliance issue process. Mr. Lobo  
18 replied that Mr. Sumer has a document prepared that states what is required for NPC-5.  
19 There is a water rationing guide and requirements for those. All new buildings must be  
20 NPC-5 certified and HCAI is looking into how to standardize those things.

21

22 Mr. Malley asked if HCAI is doing a different version of that for NPC-3 and NPC-4D.  
23 Mr. Lobo replied that like what happens from NPC-2, certain elements must be done;  
24 NPC-3 bracing in critical areas, NPC-4D is the whole area. He explained that identifying  
25 those items and what needs to be done is a bookkeeping exercise; Making a plan,  
26 talking to HCAI, then upgrading that rating from NPC-2.

27

28 Mr. Malley asked, if staff is going to develop an outline of what is expected to be shared.  
29 Mr. Lobo replied that there is only one for NPC-2 or NPC-3, and that it can be updated  
30 as we learn more.

31

32 Mr. Malley asked if HCAI will develop new guidance for the three, specifically an outline  
33 of how it would be tackled. Mr. Lobo replied in the affirmative.

34

35 Mr. Malley commented that review of the code amendments is straightforward, and that  
36 the Committee will do it line-by-line and figure out what needs to be pulled out.

37

38 Mr. Lobo noted that the goal is to remove all amendments that are already incorporated  
39 into the model code and ASCE 7. Things that are now superseded, will be taken out and  
40 that at some point, there will be no amendments.

41

1 Mr. Malley asked if the items that are in ASCE 7-22 now, will get revised for CBC 2025.  
2 Mr. Lobo replied that whatever amendments that are already accounted for in ASCE 7-  
3 22 can be removed.

4  
5 Ms. Thornburg asked what the timeline is for developing the 2025 code. Mr. Lobo replied  
6 that it is going to start within the next six months.

7  
8 Ms. Thornburg asked if those have to be proposed to the BSC a year from now.  
9 Mr. Lobo replied in the affirmative.

10  
11 Mr. Malley asked if they would be based on the 2024 IBC. Mr. Lobo replied that it would  
12 depend on when it will be out. He noted, however, that ASCE 7-22 is already out so any  
13 amendments that conflict or are not in line with 7-22 will be taken out.

14  
15 Mr. Malley asked what the goal was for developing and implementing procedures and  
16 enforceable building standards. Mr. Lobo replied that the goal is to use the latest  
17 knowledge and technology, while at the same time limiting the number of tests. He  
18 explained that you can always do the maximum, but testing costs money, so what is the  
19 minimum to get where we need to be.

20  
21 Mr. Malley commented that the keyword is enforceable; it will be clear that it either meets  
22 needs or it does not. Mr. Lobo agreed and added that it is important that whatever is put  
23 in the OPMs, is enforceable and practical.

24  
25 Mr. Malley commented that it is important that the community know that OSHPD is open  
26 when new products, materials and ideas come forward because it takes a while for those  
27 to be put into codes. Mr. Lobo agreed and noted that HCAI has a PCS program for  
28 components and systems. Although it may not be adopted yet, having a preapproved  
29 system means it can be used. He added that looking at it in advance, helps HCAI adopt  
30 it sooner or with less changes.

31  
32 Mr. Malley suggested having Joe LaBrie provide an Inspection Services Unit (ISU)  
33 update at a future meeting, allowing the Committee to brainstorm with staff how to  
34 address IOR competency. Ms. Colosi noted that the plan and goal of the ISU is to have  
35 the IOR academy up to guide current and new IOR candidates and give them more  
36 information in order to perform better. Mr. Malley remarked that if ISU staff wants to have  
37 a dialogue with the Committee regarding other ideas, it can be placed on a future  
38 Committee meeting agenda.

39  
40 Mr. Malley asked about the plans for training and outreach, and whether the education  
41 and outreach series will be completed. Mr. Lobo replied in the affirmative, adding that  
42 there will be Education and Outreach seminar, "Tips from Experts," later this year.

1 Mr. Malley appreciated the feedback and said that he is looking forward to future  
2 discussion on some of these items. He thanked everyone for their time.

3

4 **Information and Action item**

- 5 • None

6

7 **MOTION:**

- 8 • None

9

10 **8. Comments from the public/Committee members on issues not on this agenda**

11

12 **Discussion and input**

- 13 • None

14

15 **Information and Action item**

- 16 • None

17

18 **9. Adjournment**

19 Mr. Malley adjourned the meeting on April 11, 2023, at approximately 3:40 p.m.

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# Codes and Processes Committee

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Draft Meeting Report/Minutes

May 9, 2023

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



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

**Tuesday, May 9, 2023  
10:00 a.m. – 4:00 p.m.**

**Teleconference Meeting Access:**

[HBSB Teams CAP Committee](#)

Access Code: 493-134-277

**Committee Members Present**

Michael O'Connor, Committee Chair  
Jim Malley, Vice Chair  
Cody Bartley  
Louise Belair  
Gary Dunger  
John Griffiths  
Scott Mackey  
Farzad Naeim

**Consulting Members Present**

John Donelan  
Mark Hershberg  
Kelly Martinez  
Belinda Young

**HCAI Staff Present**

Arash Altoontash  
Richard Tannahill  
Brett Beekman  
Chris Davis  
Larry Enright  
John Gray  
Mike Hooper  
Joe LaBrie  
Roy Lobo  
Diana Navarro  
Carl Scheuermann  
Jamie Schnick  
Nanci Timmins  
James Yi

**HBSB Staff Present**

Ken Yu, Executive Director  
Evet Torres

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

2 Michael O'Connor, Committee Chair, called the meeting to order on May 9, 2023, at  
3 10:00 a.m., and HBSB Executive Director, Ken Yu called roll.

4  
5 **2. Roll Call and Meeting Advisories/Expectations**

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

8  
9 Mr. Yu read the public announcement regarding COVID-19, meeting rules and  
10 procedures.

11  
12 **3. California Building and Standard Code Revision for the 2022 Intervening Code**  
13 **Cycle**

14 **Presenter:** Richard Tannahill, HCAI

15  
16 **Discussion and Input**

17  
18 Mr. Tannahill indicated that the intervening cycle was in the 45 day-public comment  
19 period.

20  
21 Mr. Schnick stated that the National Electric Code (NEC) had updated:

- 22 • New style manual to include grammar and editorial changes; all definitions  
23 moved to chapter 1 and added code sections.
- 24 • Article 100 definitions – relocated from other articles to article 100.
- 25 • Definitions added in article 100.
- 26 • Part VI healthcare facilities added.
- 27 • New articles added.
- 28 • Article 517 introduction to healthcare microgrid accepted as source of emergency  
29 power.
- 30 • Article 700 – addition of a new requirement for emergency systems.
- 31 • Allowance of parallel operations of the normal and emergency systems.

32  
33 Mr. Schnick gave the California Electrical Code (CEC) 2024 Code Cycle Triennial  
34 updates:

- 1 • Carry forward 2023 NFPA change.
- 2 • HCAI Revisions to match already approved California amendments.
- 3 • Remove California amendments for Hospital Microgrids (included via model
- 4 code).
- 5 • Keep California amendments for Hospital Microgrids (included via model code)
- 6 • Remove pointers to Centers for Medicaid & Medicare Services (CMS).
- 7 • HCAI Modifications to CEC 517.
- 8 • HCAI Modifications to CEC 700.
- 9 • Addition of OSHPD 6 to banners

10

11 Mr. Griffiths asked how comments and updates were being implemented. Mr. Tannahill  
12 replied that HBSB Codes and Processes Committee meetings are considered public  
13 workshops and encouraged people to attend.

14

15 Mr. Griffiths asked for elaboration on commissioning. Mr. Tannahill answered that HCAI  
16 is working with the California Energy Commission on that matter and that the deadline  
17 for Electrical Express Terms is mid-August so the full details of proposed changes will  
18 be presented at the August 1, 2023, committee meeting.

19

20 Ms. Belair asked if the new requirement for fuel storage for Skilled Nursing Facilities  
21 (SNFs) was included in AB2511. Mr. Schnick confirmed that the requirement was  
22 indeed included. He further stated that it was currently under review and anticipated to  
23 be approved on July 1, 2024.

24

25

#### 26 **Informational and Action item**

- 27 • None

28

29

#### 30 **4. Update on Electronic Test, Inspection, and Observation (eTIO) Development**

31 **Presenter:** Joe LaBrie, HCAI

32 Mr. LaBrie stated that there was a written concept summary that suggested how the  
33 committee had prepared a document outlining the key details and procedures for  
34 conducting the eTIO.

35 Mr. Yu added that they were working with the IT department and vendor to come up  
36 with the cost of the eTIO.

37

1 **Discussion and Input**

2 Mr. Griffiths asked if there was anything the board members or the members of the  
3 public could do to advocate to help with the eTIO process. Mr. LaBrie answered that  
4 there would be a designated day to start the planning process.

5  
6 Mr. Mackey asked for clarification on whether the IT programmers working on the eTIO,  
7 were limited by their existing contract not to write the code for the eTIO. Mr. Yu  
8 answered that there was a contract with a vendor that does a lot of HCAI system  
9 enhancement, however, depending on the budget, it would be up to HCAI to decide  
10 whether to retain the existing contractor or hire a new one.

11  
12 Mr. Griffiths asked if there was public participation in the eTIO process. Mr. LaBrie  
13 answered that they were still gathering insight and perspective from industry members  
14 into the matter.

15  
16 **Informational and Action item**

- 17 • None.

18  
19  
20 **5. Standard Detail Update**

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

22 Mr. O'Connor discussed the development process for HCAI Preapproved Detail (OPD):

- 23 • Detail identification  
24 • Evaluation of the details  
25 • Renewal of the details  
26 • Discussion and edits  
27 • HCAI approval

28  
29 Mr. O'Connor gave a list of the potential types of HCAI pre-approved details:

- 30 • Wood framed SNF Details  
31     ▪ Interior non-bearing  
32     ▪ Fire wall construction  
33     ▪ Shell construction may be problematic due to the number of variables  
34         involved.  
35     ▪ An improvement that we might realize would be trimming down the OPD-  
36         0001 details to the lower importance factors that apply to SNFs.

- 1       • Corridor Handrail (may be already covered in FREER).  
2       • Frequently used MEP details?

3

4       **Discussion and input**

5       Ms. Belair asked if the existing details could be used to start and adopt the SNF  
6       requirements. Mr. O'Connor acknowledged that it was a good point to start with.

7

8       Ms. Young asked if the “how to” guidelines on HCAI website were an enhancement of  
9       the guide. Mr. O'Connor answered that the guides are meant to work together.

10

11

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

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

14

15       Future Codes and Processes Committee meeting is scheduled for August 1, 2023, and  
16       October 17, 2023.

17

18       **Discussion and input**

- 19       • None

20

21       **7. Adjournment**

22       Mr. O'Connor adjourned the meeting on May 9, 2023, at approximately 11:14 a.m.

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# Education and Outreach Committee

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Draft Meeting Report/Minutes

May 24, 2023

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



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

**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



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.

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

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Draft Meeting Report/Minutes

June 21, 2023

June 27, 2023



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



**HOSPITAL BUILDING SAFETY BOARD  
Offsite Fabrication/Preassembled Components Webinar Subcommittee  
of the Education and Outreach Committee**

**Wednesday, June 21, 2023  
10:00 a.m. – 4:00 p.m.**

**Teleconference Meeting Access:**

[HBSB Teams EO Committee](#)

Access Code: 790-188-472

**Sub-Committee Members Present**

Cody Bartley, Subcommittee Chair  
Scott Mackey, Subcommittee Vice Chair

**Consulting Member Present**

Kelly Martinez

**HCAI Staff Present**

Chris Tokas, OSHPD Deputy Director  
Arash Altoontash  
Richard Tannahill  
Mia Marvelli

**HBSB Staff Present**

Veronica Yuke, Acting Executive  
Director  
Evet Torres

1 **1. Welcome and introductions**

2 Cody Bartley, Subcommittee Chair, called the meeting to order on June 21, 2023, at  
3 10:07 a.m., and HBSB Acting Executive Director, Veronica Yuke called roll.

4

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

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

8

9 Ms. Yuke read the meeting rules and procedures.

1 **3. Discuss media for Webinar (PowerPoint and Miro)**

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

3 **Discussion and Input**

4 Mr. Bartley said that the webinar would be presented in PowerPoint.

5 Mr. Tokas emphasized the importance of discussing offsite fabrication, including ways  
6 to achieve it and the necessary requirements.

7  
8 Mr. Mackey asked if there were good, clear instructions and formats for offsite  
9 fabrication procedures and approvals. Mr. Tokas responded affirmatively, and also  
10 stressed the importance of educating the public about building code requirements as  
11 they pertain to fabrication, including quality control and inspection.

12 Mr. Tokas suggested that the webinar should also address offsite prefabrication and  
13 prefabrication adjustment to the site.

14  
15 **Informational and Action item**

- 16 • None

17  
18 **4. Webinar agenda and storyboard**

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

20 The speaking points for the agenda:

- 21 • Background – importance of preapproved fabricated components.
- 22 • Purpose – the why.
- 23 • Definitions
- 24 • Off-site fabrication and Prefabricated Components and Systems (PCS)
- 25 – modular components versus full module construction.
- 26 • PCS types and systems.
- 27 • Designing for prefabricated system– timing for the designing for PCSs
- 28 • Review of prefabrication – PCS applications, approval and requirements,
- 29 inspection of PCS products.
- 30 • Case studies - Sutter Santa Rosa, Kaiser Roseville, Kaiser San Marcos,
- 31 SurePods and offsite fabrication at UCD Ambulatory

1 **Discussion and Input**

2 Mr. Tannahill asked if the webinar would address preapproved prefabrication  
3 components to be approved per project or for any project. Ms. Endres clarified that the  
4 webinar would cover both scenarios.

5

6 **Informational and Action item**

- 7 • None

8

9 **5. Identify speakers and presentation timeframe**

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

11 **Discussion and Input**

- 12 • Background – Mr. Bartley, contractor; Mr. Mackey, Designer; Mr. Tannahill or  
13 Mr. Tokas.
- 14 • Purpose – Ms. Endres
- 15 • Definitions – Ms. Endres and HCAI staff.
- 16 • PCS types and systems – Ms. Endres, or Mr. Sumer, Mr. Bartley.
- 17 • Designing for prefabricated system – Mr. Mackey and Ms. Endres.
- 18 • Review of prefabrication – Mr. Sumer.
- 19 • Case Study
- 20 • Sutter Santa Rosa – Mr. Tokas
- 21 • SurePods and offsite fabrication at UCD Ambulatory – Mr. Bartley.
- 22 • Kaiser Roseville – Mr. Bhatia.
- 23 • Kaiser San Marcos – DPR, Joe Stazney.

24

25 **Informational and Action item**

- 26 • None.

27

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

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

30

31

1 Next committee meeting

2 • June 27, 2023.

3 • July 12, 2023.

4

5 **Discussion and input**

6 • None.

7

8 **Informational and Action item**

9 • None.

10

11 **7. Adjournment**

12 Mr. Bartley adjourned the meeting on June 21, 2023, at approximately 11:01 a.m.





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



**HOSPITAL BUILDING SAFETY BOARD  
Offsite Fabrication/Preassembled Components Webinar Subcommittee  
of the Education and Outreach Committee**

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

**Teleconference Meeting Access:**

[HBSB Teams EO Committee](#)

Access Code: 927-866-315

**Sub-Committee Members Present**

Cody Bartley, Subcommittee Chair  
Scott Mackey, Vice Chair

**HCAI Staff Present**

Richard Tannahill  
Hussain Bhatia

**HBSB Staff Present**

Veronica Yuke, Acting Executive Director  
Evet Torres

1 **1. Welcome and introductions**

2 Cody Bartley, Subcommittee Chair, called the meeting to order on June 27, 2023, at  
3 10:05 a.m., and HBSB Acting Executive Director, Veronica called roll.

4

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

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

8

9 Ms. Yuke read the meeting rules and procedures.

10

1 **3. Review progression of slide content for presentations**

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

3 **Discussion and Input**

4 Mr. Bartley gave a review of the previous subcommittee meeting which included:

- 5 • HCAI view of offsite prefabrication and preapproved fabricated components.
- 6 • Architect view of offsite prefabrication and preapproved fabricated components.
- 7 • Contractor view of offsite prefabrication and preapproved fabricated components.

8

9 **Informational and Action item**

- 10 • None

11

12 **4. Run-through of presentation**

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

14 **Discussion and Input**

15 Mr. Bartley gave a run-through of the presentation:

- 16 1. Background
- 17 2. Definitions
- 18 3. Preapprove prefabricated components and system (PPCS) types and  
19 systems
- 20 4. Purpose
- 21 5. The why – applying room temperature for offsite prefabrication and modular  
22 design in common rooms, specialty rooms, and department rooms.
- 23 6. Modular planning approach – leveraging the universal grid and modular  
24 planning principle and examples of modules.
- 25 7. The goal of PPCS.
- 26 8. Timing to integrate PPCS into design.
- 27 9. The how - Identify prefabrication opportunities early in design.
- 28 10. PPCS approval process and PPCS application submittal requirements.
- 29 11. Offsite project specific prefabrication.
- 30 12. Inspection/ offsite – who inspects offsite fabrication, the process, the  
31 inspection requirements.

32

1 13. Examples of PPCS on HCAI projects.

- 2 • Sutter Santa Rosa
- 3 • SASC
- 4 • Kaiser Roseville
- 5 • Kaiser San Marcos

6  
7 During a presentation on prefabricated ideas, a member of the public inquired about the  
8 inclusion of cold form metal framing kits. Mr. Bartley confirmed that it was part of the  
9 prefabricated process and will be discussed in the presentation.

10 An interested party asked if there would be a charge for offsite fabrication and if there  
11 were constraints on the distance that could be traveled. Mr. Bartley clarified that there  
12 would be a charge, whether for the contractor or owner. Mr. Bartley also mentioned that  
13 the presentation would not delve into the cost but would instead focus on the  
14 prerequisites for offsite prefabrication.

15  
16 **Informational and Action item**

- 17 • None

18  
19 **5. Evaluation and comments**

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

21 **Discussion and Input**

22 A member of the public suggested that PDF slide shows with examples and pictures be  
23 provided to aid in understanding the topics, particularly for framing kits.

24  
25 Mr. Bartley requested that anyone who had examples of prefabrication or highlights to  
26 share for the presentation should send them to the link provided in the chat.

27  
28 **Informational and Action item**

- 29 • None.

30  
31 **6. Comments from the public/committee members on issues not on this agenda**

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

33  
34 **Discussion and input**

- 35 • None.

1 **Informational and Action item**

- 2 • None.

3

4 **7. Adjournment**

5 Mr. Bartley adjourned the meeting on June 27, 2023, at approximately 10:51 a.m.

# Board Rosters

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**2023**

- COMMITTEES LIST
- BOARD MEMBERSHIP
- CONSULTING COMMITTEE MEMBERS
  - MEETING DATES

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**HOSPITAL BUILDING SAFETY BOARD  
2023 COMMITTEES**

**BOARD PROCEDURES COMMITTEE (AD HOC)**

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

**CODES AND PROCESSES COMMITTEE**

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

## **EDUCATION AND OUTREACH COMMITTEE**

### **Committee Members:**

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

### **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 27  
October 11  
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**

<b><u>Committee Members:</u></b> Scott Jackson, Chair John Griffiths, Vice-Chair Louise Belair David Bliss Deepak Dandekar Gary Dunger Michael Foulkes David Khorram Michele Lampshire	<b><u>HCAI Representatives:</u></b> Larry Enright Mia Marvelli Carl Scheuerman Jamie Schnick Nanci Timmins
<b><u>Consulting Members:</u></b> Eric Johnson David Lockhart	<b><u>Meeting Dates:</u></b> March 16 <del>June 22</del> CANCELED <del>October 5</del> RESCHEDULED October 25
<b>Focus/Goals:</b> <ul style="list-style-type: none"><li>• Work with CEC to develop mutually agreeable standards for hospital building energy efficiency in 2025 code cycle</li><li>• Identify HCAI research projects for energy conservation, reduction of carbon footprint, and cost savings while maintaining health and safety</li><li>• Identify how to collaborate with CMS for implementation Microgrid demonstration project</li><li>• Pursue indoor air quality at a lesser energy cost for healthcare</li><li>• Water usage in healthcare environments. Efficiency/Sustainability</li></ul>	

## **INSTRUMENTATION COMMITTEE**

<b><u>Committee Members:</u></b> Marshall Lew, Chair Bruce Clark, Vice-Chair Scott Jackson Jim Malley Farzad Naeim Jennifer Thornburg	<b><u>HCAI Representatives:</u></b> Hussain Bhatia Erol Kalkan Roy Lobo Ali Sumer
<b><u>Consulting Members:</u></b> Hamid Haddadi Moh Huang Tony Shakal	<b><u>Meeting Dates:</u></b> <del>February 16</del> CANCELED <del>June 1</del> CANCELED October 26
<b>Focus/Goals:</b> <ul style="list-style-type: none"><li>• Continue working with HCAI staff on scheduled instrumentation installations</li><li>• Consider other systems and monitoring devices</li><li>• Roll out white paper and identify areas for implementation</li><li>• Collaborate with CGS on prioritizing upgrades to existing instrumentation</li><li>• Work with EO Committee regarding webinar/seminar on instrumentation/white paper</li></ul>	

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

### **Committee Members:**

Jim Malley, Chair  
Farzad Naeim, Vice-Chair  
Cody Bartley  
Louise Belair  
Bruce Clark  
David Khorram  
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  
Deepak Dandekar  
John Griffiths  
Bert Hurlbut  
Scott Jackson  
Scott Mackey  
Michael O'Connor

### **Consulting Members:**

Benjamin Broder  
Eric Johnson  
Belinda Young

### **HCAI Representatives:**

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

### **Meeting Dates:**

~~April 26~~ CANCELED  
September 7

### **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 6 and 7 – 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 Farzad Naeim	8/2020 8/2021	8/2024 8/2025	1 <sup>st</sup> term 1 <sup>st</sup> term
2 architects	Deepak Dandekar Scott Mackey	5/2015 8/2021	5/2023 8/2025	2 <sup>nd</sup> term 1 <sup>st</sup> term
1 engineering geologist	Bruce Clark	12/2019	12/2023	1 <sup>st</sup> term
1 geotechnical engineer	Marshall Lew	5/2015	5/2023	2 <sup>nd</sup> term
1 mechanical engineer	Louise Belair	6/2017	6/2025	2 <sup>nd</sup> term
1 electrical engineer	John Griffiths	8/2022	8/2026	1 <sup>st</sup> term
1 hospital facilities manager	Gary Dunger	12/2022	12/2026	1st term
1 local building official	David Khorram	6/2019	6/2023	1 <sup>st</sup> term
1 general contractor	Cody Bartley	8/2022	8/2026	1 <sup>st</sup> term
1 fire/life safety representative	Scott L. Jackson	6/2018	6/2026	2 <sup>nd</sup> term
1 hospital inspector of record	VACANT			
3 public members	Michele Lampshire David Bliss D. Michael Foulkes	12/2019 5/2016 6/2017	12/2023 5/2024 6/2025	1 <sup>st</sup> term 2 <sup>nd</sup> term 2 <sup>nd</sup> term
<b>TOTAL</b>	<b>15</b>			

### Ex-Officio Members

HCAI, Director	Elizabeth Landsberg	No Term of Office Stipulated
State Fire Marshal	Daniel Berlant (Acting)	
State Geologist	VACANT Jennifer Thornburg (Delegates)	
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)	
Office of Statewide Hospital Planning and Development, (OSHPD) Deputy Director	Chris Tokas	
<b>TOTAL</b>	<b>6</b>	

### Director Appointed Ex-Officio Members (Serve at pleasure of Director)

2 members	Bert Hurlbut Michael O'Connor	No Term of Office Stipulated
<b>TOTAL</b>	<b>2</b>	

<b>TOTAL HBSB Members</b>	<b>23</b>	
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## 2023 CONSULTING COMMITTEE MEMBERS

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

## 2023 CONSULTING COMMITTEE MEMBERS

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

**HCAI** Department of Health Care  
Access and Information

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



August 7, 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 18, 2023 10 am – 4 pm	Education and Outreach Committee	<u>Microsoft Teams</u>
		<u>In Person:</u> HCAI Los Angeles HCAI Sacramento
January 24, 2023	Structural and Nonstructural Regulations Committee	<b>CANCELED</b>
February 7, 2023	Codes and Processes Committee	<b>CANCELED</b>
February 16, 2023	Instrumentation Committee	<b>CANCELED</b>
March 8, 2022 10 am – 4 pm	Education and Outreach Committee	<u>Microsoft Teams</u>
		<u>In Person:</u> HCAI Los Angeles HCAI Sacramento
March 16, 2023 10 am – 4 pm	Energy Conservation and Management Committee	<u>Microsoft Teams</u>
		<u>In Person:</u> HCAI Los Angeles HCAI Sacramento

<b>DATE</b>	<b>MEETING</b>	<b>LOCATION</b>
<b>April 11, 2023</b> 10 am – 4 pm	<b>Structural and Nonstructural Regulations Committee</b>	<b><u>Microsoft Teams</u></b>  <b><u>In Person:</u></b> HCAI Los Angeles HCAI Sacramento
<b>April 20, 2023</b> 10 am – 4 pm	<b>Full Board</b>	<b><u>Microsoft Teams</u></b>  <b><u>In Person:</u></b> HCAI Los Angeles HCAI Sacramento
<b>April 26, 2023</b>	<b>Technology and Research Committee</b>	<b>CANCELED</b>
<b>May 9, 2023</b> 10 am – 4 pm	<b>Codes and Processes Committee</b>	<b><u>Microsoft Teams</u></b>  <b><u>In Person:</u></b> HCAI Los Angeles HCAI Sacramento
<b>May 24, 2023</b> 10 am – 4 pm	<b>Education and Outreach Committee</b>	<b><u>Microsoft Teams</u></b>  <b><u>In Person:</u></b> HCAI Los Angeles HCAI Sacramento
<b>June 1, 2023</b>	<b>Instrumentation Committee</b>	<b>CANCELED</b>
<b>June 21, 2023</b> 10 am – 12 pm	<b>Offsite Fabrication/ Preassembled Components Webinar Subcommittee</b> (of the Education and Outreach Committee)	<b><u>Microsoft Teams</u></b>  <b><u>In Person:</u></b> HCAI Los Angeles HCAI Sacramento
<b>June 22, 2023</b>	<b>Energy Conservation and Management Committee</b>	<b>CANCELED</b>
<b>June 27, 2023</b> 10 am – 12 pm	<b>Offsite Fabrication/ Preassembled Components Webinar Subcommittee</b> (of the Education and Outreach Committee)	<b><u>Microsoft Teams</u></b>  <b><u>In Person:</u></b> HCAI Los Angeles HCAI Sacramento



DATE	MEETING	LOCATION
<b>July 12, 2023</b> 10 am – 12 pm	<b>Offsite Fabrication/            Preassembled Components            Webinar Subcommittee</b> (of the Education and Outreach Committee)	<u><b>In Person:</b></u> HCAI Los Angeles HCAI Sacramento <hr/> <u><b>Microsoft Teams</b></u>
<b>July 26, 2023</b> 10 am – 4 pm	<b>Education and Outreach            Committee</b>	<u><b>In Person:</b></u> HCAI Los Angeles HCAI Sacramento <hr/> <u><b>Microsoft Teams</b></u>
<b>August 1, 2023</b> 10 am – 4 pm	<b>Codes and Processes            Committee</b>	<u><b>In Person:</b></u> HCAI Los Angeles HCAI Sacramento <hr/> <u><b>Microsoft Teams</b></u>
<b>August 14, 2023</b> 10 am – 4 pm	<b>Codes and Processes            Committee</b>	<u><b>In Person:</b></u> <b>HCAI Los Angeles</b> 355 S. Grand Ave, Ste. 1901 Los Angeles, California 90071  <b>HCAI Sacramento</b> 2020 West El Camino Ave, Ste. 930 Sacramento, CA 95833  <u><b>Microsoft Teams:</b></u> <a href="#">Click here to join the meeting</a> Meeting ID: 222 578 266 737 Passcode: m7YSxf  <b>Or call:</b> +1 916-535-0978 Phone Conf ID: 677 065 770#

DATE	MEETING	LOCATION
<b>August 17, 2023</b> 10 am – 4 pm	<b>Full Board</b>	<p><b>HCAI Sacramento</b>            2020 West El Camino Ave, Ste. 900            Sacramento, CA 95833</p> <hr/> <p><b>Microsoft Teams:</b>  <a href="#">Click here to join the meeting</a>            Meeting ID: 298 210 164 872            Passcode: Xe3puf</p> <p><b>Or call:</b> +1 916-535-0978            Phone Conf ID: 650 328 210#</p>
<b>August 30, 2023</b> 10 am – 4 pm	<b>Education and Outreach Committee</b>	<p><b>In Person:</b>  <b>HCAI Los Angeles</b>            355 S. Grand Ave, Ste. 2000            Los Angeles, California 90071</p> <p><b>HCAI Sacramento</b>            2020 West El Camino Ave, Ste. 930            Sacramento, CA 95833</p> <hr/> <p><b>Microsoft Teams:</b>  <a href="#">Click here to join the meeting</a>            Meeting ID: 243 100 878 861            Passcode: NELnso</p> <p><b>Or call:</b> +1 916-535-0978            Phone Conf ID: 670 477 633#</p>
<b>August 29, 2023</b>	<b>Structural and Nonstructural Regulations Committee</b>	<p><b>CANCELED</b></p>

DATE	MEETING	LOCATION
<p><b>September 7, 2023</b> 10 am – 4 pm</p>	<p><b>Technology and Research Committee</b></p>	<p><b><u>In Person:</u></b>  <b>HCAI Los Angeles</b>  355 S. Grand Ave, Ste. 2000  Los Angeles, California 90071</p> <p><b>HCAI Sacramento</b>  2020 West El Camino Ave, Ste. 930  Sacramento, CA 95833</p> <hr/> <p><b><u>Microsoft Teams:</u></b>  <a href="#">Click here to join the meeting</a>  Meeting ID: 295 197 453 081  Passcode: X9HmE6</p> <p><b>Or call:</b> +1 916-535-0978  Phone Conf ID: 424 054 777#</p>
<p><b>September 27, 2023</b> 10 am – 4 pm</p>	<p><b>Education and Outreach Committee</b></p>	<p><b><u>In Person:</u></b>  <b>HCAI Los Angeles</b>  355 S. Grand Ave, Ste. 2000  Los Angeles, California 90071</p> <p><b>HCAI Sacramento</b>  2020 West El Camino Ave, Ste. 930  Sacramento, CA 95833</p> <hr/> <p><b><u>Microsoft Teams:</u></b>  <a href="#">Click here to join the meeting</a>  Meeting ID: 250 765 331 901  Passcode: txfVvm</p> <p><b>Or call:</b> +1 916-535-0978  Phone Conf ID: 451 325 571#</p>

DATE	MEETING	LOCATION
<p><b>October 11, 2023</b> 10 am – 4 pm</p>	<p><b>Education and Outreach Committee</b></p>	<p><b><u>In Person:</u></b>  <b>HCAI Los Angeles</b>  355 S. Grand Ave, Ste. 2000  Los Angeles, California 90071</p> <p><b>HCAI Sacramento</b>  2020 West El Camino Ave, Ste. 930  Sacramento, CA 95833</p> <hr/> <p><b><u>Microsoft Teams:</u></b>  <a href="#">Click here to join the meeting</a>  Meeting ID: 296 491 953 570  Passcode: 4dmXKq</p> <p><b>Or call:</b> +1 916-535-0978  Phone Conf ID: 637 025 207#</p>
<p><b>October 17, 2023</b> 10 am – 4 pm</p>	<p><b>Codes and Processes Committee</b></p>	<p><b><u>In Person:</u></b>  <b>HCAI Los Angeles</b>  355 S. Grand Ave, Ste. 2000  Los Angeles, California 90071</p> <p><b>HCAI Sacramento</b>  2020 West El Camino Ave, Ste. 930  Sacramento, CA 95833</p> <hr/> <p><b><u>Microsoft Teams:</u></b>  <a href="#">Click here to join the meeting</a>  Meeting ID: 270 488 702 814  Passcode: 7uD5pN</p> <p><b>Or call:</b> +1 916-535-0978  Phone Conf ID: 479 530 933#</p>

DATE	MEETING	LOCATION
<p><b>October 25, 2023</b> 10 am – 4 pm</p>	<p><b>Energy Conservation and Management Committee</b></p>	<p><b><u>In Person:</u></b>  <b>HCAI Los Angeles</b>  355 S. Grand Ave, Ste. 2000  Los Angeles, California 90071</p> <p><b>HCAI Sacramento</b>  2020 West El Camino Ave, Ste. 930  Sacramento, CA 95833</p> <hr/> <p><b><u>Microsoft Teams:</u></b>  <a href="#">Click here to join the meeting</a>  Meeting ID: 288 774 420 454  Passcode: shHZ2K</p> <p><b>Or call:</b> +1 916-535-0978  Phone Conf ID: 604 967 33#</p>
<p><b>October 26, 2023</b> 10 am – 4 pm</p>	<p><b>Instrumentation Committee</b></p>	<p><b><u>In Person:</u></b>  <b>HCAI Los Angeles</b>  355 S. Grand Ave, Ste. 1901  Los Angeles, California 90071</p> <p><b>HCAI Sacramento</b>  2020 West El Camino Ave, Ste. 930  Sacramento, CA 95833</p> <hr/> <p><b><u>Microsoft Teams:</u></b>  <a href="#">Click here to join the meeting</a>  Meeting ID: 237 309 053 822  Passcode: ucet3C</p> <p><b>Or call:</b> +1 916-535-0978  Phone Conf ID: 271 646 402#</p>

DATE	MEETING	LOCATION
<p><b>November 1, 2023</b> 10 am – 4 pm</p>	<p><b>Education and Outreach Committee</b></p>	<p><b><u>In Person:</u></b>  <b>HCAI Los Angeles</b>  355 S. Grand Ave, Ste. 2000  Los Angeles, California 90071</p> <p><b>HCAI Sacramento</b>  2020 West El Camino Ave, Ste. 930  Sacramento, CA 95833</p> <hr/> <p><b><u>Microsoft Teams:</u></b>  <a href="#">Click here to join the meeting</a>  Meeting ID: 252 354 288 881  Passcode: ZSUPR8</p> <p><b>Or call:</b> +1 916-535-0978  Phone Conf ID: 984 592 257#</p>
<p><b>November 7, 2023</b> 10 am – 4 pm</p>	<p><b>Structural and Nonstructural Regulations Committee</b></p>	<p><b><u>In Person:</u></b>  <b>HCAI Los Angeles</b>  355 S. Grand Ave, Ste. 2000  Los Angeles, California 90071</p> <p><b>HCAI Sacramento</b>  2020 West El Camino Ave, Ste. 930  Sacramento, CA 95833</p> <hr/> <p><b><u>Microsoft Teams:</u></b>  <a href="#">Click here to join the meeting</a>  Meeting ID: 276 016 240 782  Passcode: tXkeMw</p> <p><b>Or call:</b> +1 916-535-0978  Phone Conf ID: 712 104 730#</p>
<p><b>December 6, 2023</b> 10 am – 4 pm</p>	<p><b>Two-day Full Board (Day 1)</b></p>	<p><b>HCAI Los Angeles</b>  355 S. Grand Ave, Ste. 2000  Los Angeles, California 90071</p> <hr/> <p><b><u>Microsoft Teams:</u></b>  <a href="#">Click here to join the meeting</a>  Meeting ID: 215 872 986 280  Passcode: adLscj</p> <p><b>Or call:</b> +1 916-535-0978  Phone Conf ID: 348 094 160#</p>

DATE	MEETING	LOCATION
<b>December 7, 2023</b> 9 am – 3 pm	<b>Two-day Full Board (Day 2)</b>	<b>HCAI Los Angeles</b> 355 S. Grand Ave, Ste. 2000 Los Angeles, California 90071  <b>Microsoft Teams:</b> <a href="#">Click here to join the meeting</a> Meeting ID: 220 889 073 910 Passcode: eEBCZX  <b>Or call:</b> +1 916-535-0978 Phone Conf ID: 432 691 536#

NOTE: Individuals with disabilities may request an accommodation or modification to observe or participate in the meetings by contacting Evett Torres at (916) 440-8453, [evett.torres@hcai.ca.gov](mailto:evett.torres@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.

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