# Hospital Building Safety Board

Full Board Meeting April 28, 2022



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

This meeting will be held in-person at the Department of Health Care Access and Information (HCAI) offices in Los Angeles and Sacramento, as well as by teleconference. Members of the public may fully participate from their own locations.

# Microsoft Teams:

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

Join on your computer or mobile app

- Click here to join the meeting
- Or copy and paste the following link into your browser: <u>https://teams.microsoft.com/l/meetup-</u> join/19%3ameeting\_OTM0NTM5NmMtMGZkYy00YmRmLWExMzEtMjY5ZmY5Mjk 4ODU0%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

Or call in (audio only)

- +1 (916) 535-0978 United States, Sacramento
- Enter Conference ID: 797 666 93#

Or join with a video conferencing device

- <u>576732194@t.plcm.vc</u>
- Video Conference ID: 111 934 561 0
- <u>Alternate VTC instructions</u>

# Locations:

HCAI Los Angeles 355 South Grand Avenue, Suite 2000 Los Angeles, CA 90071

HCAI Sacramento 2020 West El Camino Avenue, Suite 900 Sacramento, CA 95833

# HCAI Department of Health Care Access and Information

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



AMENDED

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

This meeting will be held in-person at the locations noted below, as well as by teleconference. 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 David Bliss, Vice Chair Bruce Clark Deepak Dandekar Michael Foulkes Mike Hooper Scott L. Jackson David Khorram Pete Kreuser Michele Lampshire Marshall Lew Roy L. Lopez\* Scott Mackey Jim O. Malley Farzad Naeim\* Bruce Rainey

Director-Appointed Ex-Officio Members Bert Hurlbut Michael O'Connor Date:

Thursday, April 28, 2022 10:00 a.m. – 4:00 p.m. (Please note late start time)

Locations: Department of Health Care Access and Information 2020 West El Camino Avenue, Suite 900 Sacramento, CA 95833

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

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

Mike Richwine State Fire Marshal

Steve Bohlen (Acting) State Geologist Tim McCrink (Delegate) Jennifer Thornburg (Delegate)

Mia Marvelli Building Standards Commission Executive Director

Tomás J. Aragón, M.D., Dr. P.H. Dept. of Public Health Director Nathaniel Gilmore (Delegate)

Chris Tokas Facilities Development Division, HCAI Deputy Director

> Executive Director Ken Yu

AGENDA

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

\*Attending virtually

Item	Subject	Facilitator
2	<ul> <li>Roll Call and Meeting Advisories/Expectations</li> <li>Determination of quorum</li> <li>Conduct of Meeting</li> </ul>	Ken Yu, HBSB Executive Director (or designee)
3	<ul> <li>Department of Health Care Access and Information (HCAI)</li> <li>Update</li> <li>Update on HCAI programs and initiatives</li> <li>Discussion and public input</li> </ul>	Elizabeth Landsberg, HCAI Director (or designee)
4	<ul> <li>Letter of Acknowledgment from Paul Coleman to the Board</li> <li>Discussion and public input</li> </ul>	Ken Yu, HBSB Executive Director (or designee)
5	Overview and approval of the December 8 – 9, 2021 Full Board draft Meeting Report/Minutes • Discussion and public input	Louise Belair, Board Chair (or designee)
6	<ul> <li>Technology and Research Committee</li> <li>Overview and approval of the November 10, 2021 draft Meeting Report/Minutes</li> <li>Discussion and public input</li> </ul>	Bruce Rainey, Committee Chair (or designee)
7	<ul> <li>Structural and Nonstructural Regulations Committee</li> <li>Overview and approval of the January 13, 2022 draft Meeting Report/Minutes</li> <li>Discussion and public input</li> </ul>	Jim Malley, Committee Chair (or designee)
8	<ul> <li>Ad Hoc Board Procedures Committee</li> <li>Overview and approval of the January 26, 2022 draft Meeting Report/Minutes</li> <li>Discussion and public input</li> </ul>	Michael Foulkes, Committee Chair (or designee)
9	<ul> <li>Instrumentation Committee</li> <li>Overview and approval of the January 27, 2022 draft Meeting Report/Minutes</li> <li>Update on the draft white paper, "The Benefits of Strong- Motion Instrumentation in Hospital Facilities"</li> <li>Discussion and public input</li> </ul>	Marshall Lew, Committee Chair (or designee)
10	<ul> <li>Codes and Processes Committee</li> <li>Overview and approval of the February 10, 2022 draft Meeting Report/Minutes</li> <li>Discussion and public input</li> </ul>	Michael O'Connor, Committee Chair (or designee)

Item	Subject	Facilitator
11	<ul> <li>Education and Outreach Committee</li> <li>Overview and approval of the February 23, 2022 draft Meeting Report/Minutes</li> <li>Discussion and public input</li> </ul>	Mike Hooper, Committee Chair (or designee)
12	<ul> <li>Energy Conservation and Management Committee</li> <li>Overview and approval of the March 15, 2022 draft Meeting Report/Minutes</li> <li>Discussion and public input</li> </ul>	Roy Lopez, Committee Chair (or designee)
13	<ul> <li>Appoint a Nominating Committee for Chair and Vice-Chair elections at the August 2022 Full Board meeting</li> <li>Discussion and public input</li> </ul>	Louise Belair, Board Chair (or designee)
14	<ul> <li>Inspection Services Unit Update</li> <li>Inspection Services Unit to provide an update on accomplishments year-to-date</li> <li>Update to the Testing, Inspection and Observation (TIO) Program</li> <li>Discussion and public input</li> </ul>	Joe LaBrie, FDD Inspection Services Unit Supervisor (or designee) Chris Davis, FDD District Structural Engineer (or designee)
15	<ul> <li>Building Standards Unit Update</li> <li>Building Standards Unit to provide an update on accomplishments year-to-date</li> <li>Discussion and public input</li> </ul>	Richard Tannahill, FDD Acting Deputy Division Chief (or designee)
16	<ul> <li>Structural Services Section Update</li> <li>Structural Services Section to provide an update on accomplishments year-to-date</li> <li>Discussion and public input</li> </ul>	Roy Lobo, FDD Principal Structural Engineer (or designee)
17	<ul> <li>Fire Prevention Unit Update</li> <li>Fire Prevention Unit to provide an update on accomplishments year-to-date</li> <li>Discussion and public input</li> </ul>	Nanci Timmins, FDD Chief Fire Life Safety Officer (or designee)
18	<ul> <li>Facilities Development Division (FDD) Update</li> <li>Workload and performance</li> <li>Personnel changes</li> <li>Discussion and public input</li> </ul>	Chris Tokas, FDD Deputy Director (or designee)

Item	Subject	Facilitator
19	Comments from the Public/Board Members on issues not on this agenda	Louise Belair, Board Chair (or designee)
	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.	(0. 000,9.00)

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 60-minute lunch (if needed) may be taken some time during the day. For further information about this meeting, please contact Evett Torres at (916) 440-8453, <u>evett.torres@hcai.ca.gov</u>, 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 <u>https://hcai.ca.gov/construction-finance/hbsb/</u>.

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 are scheduled for:

- August 11, 2022
- December 7 8, 2022

In-person meeting participation is required for board and committee members, however, members of the public, including HCAI staff, are encouraged to join the meeting and provide public comment virtually through Microsoft Teams.

Masks or face coverings are strongly recommended to everyone attending the meeting in person, regardless of vaccination status.

# Microsoft Teams:

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

You are <u>NOT</u> 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).

Join on your computer or mobile app

• <u>Click here to join the meeting</u>

 Or copy and paste the following link into your browser: <u>https://teams.microsoft.com/l/meetup-</u> join/19%3ameeting\_OTM0NTM5NmMtMGZkYy00YmRmLWExMzEtMjY5ZmY5Mjk4ODU0 %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

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# Sacramento Office:

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

# Los Angeles Office:

You may take public transportation via:

- The Red or Purple Lines to Pershing Square
- The B Dash bus to Financial District (on Alameda St)
- The Commuter bus at Patsaouras Plaza (Stop# 3)

Public parking locations in the area:

- 330 S. Hope Street Wells Fargo Center
  - On Site; \$4.40 for each 10 minutes/\$44 for 10 hours
- 465 S. Flower Street Westin Bonaventure Garage
   .12 Miles; \$20
- 530 S. Grand Avenue Pac Mutual Building Garage
   .15 Miles; \$25
- 601 W. 5th Street Cal Edison Building
  - $\circ$  .18 Miles; \$18
- 625-631 S. Olive Street Crown Plaza Garage
  - o .23 Miles; \$10
- 523 S. Olive Street Pac Mutual Building Garage
  - .24 Miles; \$16

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### Paul A. Coleman, Architect P.O. Box 595 Pine Grove, CA 95665

January 25, 2022

Honorable Members of the Hospital Building Safety Board 2020 West El Camino Avenue, Suite 800 Sacramento, CA 95833

Dear Hospital Building Safety Board Members,

I am appreciative and humbled by your letter of commendation to me dated December 9, 2021. Working with the Hospital Building Safety Board (HBSB) for more than twenty-five years was one of the major highlights of my career with the Facilities Development Division (FDD), first as the Los Angeles Office Deputy Division Chief, and then as the Deputy Director. The FDD and I will be forever indebted for the many contributions of the HBSB.

When I became the Deputy Director I had five primary goals pertaining to the HBSB: 1) seek out the best professionals or representatives for each position, 2) obtain representation from across California's healthcare industry such that large and small design firms, builders, health care providers and other stakeholders have representation, 3) bring more diversity and inclusiveness to the HBSB, 4) ensure that all areas of California are represented, and 5) be transparent with the HBSB and involve it in all of FDD's policies, procedures, code adoptions, etc. to ensure actions taken by FDD are reasonable, usable, doable, and sustainable. The current Board makeup is a testament that these goals were accomplished, not by me alone, but through the assistance of the HBSB leadership and its members. I am very proud of the HBSB and the great mission it has and the commitment that each Board member has made to that mission. I would not have been as effective as your letter portrays me to be without the guidance, input, advise, and inspiration from each one of you.

Now for a little bit about me and what I have been doing since August 1, 2021. I purchased a house that had deferred maintenance, and in some cases, downright neglect, but has good bones. This was done on purpose so that I would have projects to keep me busy during retirement. My first priority was to make the needed repairs required before winter weather. To this end I have accomplished replacing the thirty squares of roofing on the house, repairing over nine hundred square feet of decking, and I am currently working on repairing and refinishing more than one hundred fifty feet of deck railing. There is much left to be done on the exterior and I still have the interior work, the garage/shop building repairs and maintenance, lot clearing for better fire

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safety, restoration of a fifty-year-old pickup, travel, and many other ventures to look forward to.

In 2021 I began to realize that there comes a time when you know to move on. I do not know what role, if any, the pandemic played in this epiphany, however, several factors lined up in my life to let me know my time was at hand. The most telling factor was when the name of the Department was changed from OSHPD – **O**ffice of **S**tatewide **H**ealth; **P**aul's **D**ivision to HCAI – **H**ow about **C**hris and **A**rash Instead.

Keep doing what you are doing and being what you are being, which is the most valuable Advisory Board in the state of California.

In Fondest Memories of our Partnership,

Paul A. Coleman

# Full Board

Draft Meeting Report/Minutes

December 8 - 9, 2021

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### Gavin Newsom, Governor

# HCAI Department of Health Care Access and Information

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

### HOSPITAL BUILDING SAFETY BOARD Full Board Meeting

Wednesday, December 8, 2021 9:00 a.m. - 3:00 p.m.

Thursday, December 9, 2021 9:00 a.m. – 1:00 p.m.

### Teleconference Meeting Access: Day One:

Day 1 HBSB GoToMeeting FB Meeting Access Code: 490-358-493

### Day Two:

Day 2 HBSB GoToMeeting FB Meeting Access Code: 878-753-989

### **Appointed Members**

Louise Belair. Chair David Bliss, Vice-Chair Bruce Clark Deepak Dandekar Michael Foulkes **Mike Hooper** Scott L. Jackson David Khorram Pete Kreuser Michele Lampshire Marshall Lew Roy L. Lopez Scott Mackey James Malley Farzad Naeim **Bruce Rainey** 

### HCAI Staff Present:

Elizabeth Landsberg, HCAI Director Scott Christman, HCAI Chief Deputy Director Chris Tokas, FDD Deputy Director Arash Altoontash **Richard Tannahill** Hussain Bhatia Monica Colosi Joe LaBrie Roy Lobo Eric Morikawa David Neou Will Owen **Cesar Ponce** Carl Scheuerman **Jamie Schnick** Ali Sumer Nanci Timmins Hoa Tran James Yi



Director-Appointed Ex-Officio Members Bert Hurlbut Michael O'Connor

### Ex-Officio Members

Nathaniel Gilmore Jennifer Thornburg

# 1 **1. Welcome and Introductions**

2 Louise Belair, Committee Chair, called the meeting to order on December 8, 2021, at

HBSB Staff:

Joanne Jolls

Evett Torres Veronica Yuke

Ken Yu, Executive Director

- 3 9:00 a.m., and HCAI Executive Director, Ken Yu, called roll.
- 4

# 5 2. Roll Call and Meeting Advisories/Expectations

- 6 Nine members of the Board present constitute a quorum. There being fifteen present at 7 the time of roll, a quorum was established.
- 8
- 9 Mr. Yu read the advisory OSHPD officially became Department of Healthcare Access
- and Information, or HCAI and Government Code section 11133 continues to provide
- 11 temporary modifications to the Bagley Keene.
- 12

# 13 **3. HCAI Update**

14 **Presenter:** Elizabeth Landsberg, HCAI Director (or designee)

# 15 **Discussion and public Input**

- 16 Ms. Landsberg acknowledged the official onboarding of Chris Tokas, FDD Deputy
- 17 Director, and gave an update on HCAI programs and initiatives.
- 18

# 19 Program Updates:

- Transition the California Healthcare Workforce Policy Commission to a Graduate
   Medical Education and Training Council
- Integrating the State Office of Rural Health into the primary care office
- Maintaining Health Professions Education Foundation programs
- 2020 seismic standard under the AV 2190 extension program
- Building and standard regulations are almost complete.
- Budget Updates:
- Initiative to re-merge the behavioral health system for all Californians from
   birth to age 25, and HCAI has a great responsibility helping to develop the
- 29 workforce

- Governor signed two pieces of legislation, giving specific hospitals additional
   time to meet the 2021 seismic standard under the AV2190 extension
   program.
- 4
- 5 Ms. Belair thanked Ms. Landsberg for the presentation and congratulated Mr. Tokas on 6 his new role.
- 7 Information item and Action Item
- 8 None
- 9
- 10 4. Overview and approval of the August 18, 2021 Full Board draft Meeting
- 11 Report/Minutes
- 12 **Presenter:** Louise Belair, Board Chair
- 13 Discussion and public Input
- 14
- 15 MOTION: [Mackey/Lopez]
- 16 The Board voted to accept the August 18, 2021 Full Board draft Meeting Report/Minutes
- 17 as presented with corrections noted. Mr. Yu took a roll call vote:
- 18 David Bliss yes
- 19 Bruce Clark yes
- 20 Deepak Dandekar yes
- 21 Michael Foulkes yes
- 22 Mike Hooper yes
- 23 Scott L. Jackson yes
- 24 David Khorram yes
- 25 Pete Kreuser yes
- 26 Michele Lampshire yes
- 27 Marshall Lew yes
- 28 Roy L. Lopez yes
- 29 Scott Mackey abstain
- 30 James Malley yes
- 31 Farzad Naeim yes
- 32 Bruce Rainey yes
- 33 Information item and Action Item
- 34 None.
- 35
- **5.** Structural and Nonstructural Regulations Committee

- 1 **Presenter:** Jim Malley, Acting Committee Chair
- Overview and approval of June 30, 2021 draft Meeting Report/Minutes

# 3 Discussion and public Input

- 4 Ms. Belair asked about the availability of a pre-approved process of the components.
- 5 Mr. Tokas stated that the availability of the pre-approved process of the components is
- 6 coming soon. He added that while HCAI is putting together the different policies and
- 7 guidelines, they are moving forward with the review and approval of SAS components.
- 8 Mr. Tokas assured the Board would receive reports on the different types of
- 9 components in process that have not been approved to date. Mr. Malley congratulated
- 10 HCAI staff for work done to finish the California Building Code changes and getting the
- 11 changes approved.
- 12
- 13 MOTION: [Belair/Dandekar]
- 14 The Board voted to accept the June 30, 2021, draft Meeting Report/Minutes as
- 15 presented with corrections noted. Mr. Yu took a roll call vote:
- 16 David Bliss yes
- 17 Bruce Clark yes
- 18 Deepak Dandekar yes
- 19 Michael Foulkes yes
- 20 Mike Hooper yes
- 21 Scott L. Jackson yes
- 22 David Khorram yes
- 23 Pete Kreuser yes
- 24 Michele Lampshire yes
- 25 Marshall Lew yes
- 26 Roy L. Lopez yes
- 27 Scott Mackey abstain
- 28 James Malley yes
- 29 Farzad Naeim yes
- 30 Bruce Rainey yes

# 31 Information item and Action Item

32 None.

# **6. Education and Outreach Committee**

- 34 **Presenter:** Mike Hooper, Committee Chair
- Overview and approval of July 14, 2021 and October 12, 2021 draft Meeting
- 36 Reports/Minutes.

# 1 Discussion and public Input

- 2 Ms. Belair indicated during October 13, 2021, meeting that she was acting chair of the
- 3 Committee. The report listed her as vice-chair and suggested correcting her title from
- 4 vice-chair to acting chair.
- 5

# 6 **MOTION:** [Hooper/Lew]

The Board voted unanimously to accept the July 14 and October 13, 2021 draft Meeting
 Reports/Minutes as presented with corrections noted.

# 9 Information item and Action Item

10 None.

11

# 12 7. Codes and Processes Committee

- 13 **Presenter:** Michael O'Connor, Committee Chair
- Overview and approval of September 23, 2021 Codes and Processes Committee
   Meeting Report
- 16 **Discussion and public Input**
- 17
- 18 MOTION: [O'Connor/Khorram]
- 19 The Board voted unanimously to accept the September 23, 2021 draft Meeting
- 20 Report/Minutes as presented.
- 21 Information item and Action item
- 22 None.
- 23

# 24 8. Energy Conservation and Management Committee

- 25 Presenter: Roy Lopez, Committee Chair
- Overview and approval of October 7, 2021 draft Meeting Report/Minutes

# 27 Discussion and public Input

28

- 29 **MOTION:** [Lopez/Hurlbut]
- The Board voted unanimously to accept the October 7, 2021 draft Meeting
- 31 Report/Minutes as presented.
- 32 Information item and Action item
- 33 None.

HBSB Full Board Meeting - 12/8/21 - 12/9/2021

1

# 2 9. Instrumentation Committee

- 3 Presenter: Marshall Lew, Committee Chair
- Overview and approval of October 28, 2021 draft Meeting Report/Minutes
- 5 **Discussion and public Input**
- 6 MOTION: [Lew/Rainey]
- 7 The Board voted unanimously to accept the October 28, 2021, draft Meeting
- 8 Report/Minutes as presented.
- 9 Information item and Action item
- 10 None.
- 11

# 12 10. Letter of Commendation to Paul Coleman on behalf of the Board

# 13 Presenter: Marshall Lew, Committee Chair

# 14 Discussion and public Input

- 15 Mr. Lew presented the recommendation letter, which included a list of Mr. Coleman's
- accolades, 30 years of outstanding service, 12 years of transformative service as
- 17 Deputy Director of FDD, innovation, and technology adoption.
- 18
- 19 Mr. Dandekar suggested Mr. Coleman's commendation for improving the relationship
- with the community that the agency serves. Mr. Bliss expressed his appreciation of Mr.
- 21 Coleman's fierce advocacy, dedication, honesty and required all those around him,
- 22 including appointees, to adhere to those principles.
- 23
- 24 Mr. Donelan suggested changing the department name to "HCAI/OSHPD".
- 25
- 26 **MOTION:** [Mackey/Malley]
- 27 The Board voted unanimously to approve the Letter of Commendation to Paul Coleman
- as presented with edits as so noted.
- 29 Information item and Action Item
- 30 None.
- 11. Proposed ASCE-7-22 Multi Period response spectra Case study; Impact on
- 32 Los Angeles metropolitan area

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

# 2 Discussion and public Input

- 3 Mr. Lew detailed the ASCE-7-22 multi-period response spectra, which are documents
- 4 published by the American Society of Civil Engineers and the Structural Engineering
- 5 Institute, a provision for seismic design. He continued and spoke in-depth about the
- 6 relevance of ASCE-7-22 to HCAI.
- 7
- 8 Mr. Lew explained the design spectra changes, particularly what necessitated those
- 9 changes. The changes were the functions of the building period, i.e., short buildings will
  10 be designed for a high value of spectral response acceleration.
- 11
- 12 Mr. Lew provided updates about site classes which are groups A to E depending on the
- 13 soil underneath the building. The site classes are based on the average shear wave
- velocity. He also added that to improve the resolution of the site classes, ACSE-7-22
- 15 has nine site classes, while ACSE-7-16 has six. The changes will give the maximum
- 16 considered earthquake (MCR) response spectra based on longitude, latitude, and site
- 17 shear wave velocity.
- 18
- 19 Mr. Lew made comparisons between ASCE-7-22 and ASCE -7-16 depending on site-
- 20 specifics. These comparisons were done at Pacoima Dam, Griffith Park Observatory,
- 21 Stone Canyon Reservoir, Century City, Downtown LA- Bunker Hill, Rosemead, and
- 22 Dolphin Park.
- 23
- 24 Mr. Lew concluded that -
- Based on the comparison with the PSHA results, the MPRS appears to give a
   more realistic estimate of the design spectrum.
- The MPRS avoids the problem of being unconservative when soft soils underlie a site, thus providing a better assurance for a safe design.
- The use of the USGS web tool to obtain the design spectrum based on the site
   properties will reduce the problems of human errors and provide a more
   consistent design.
- 32
- 33 Mr. Mark asked for clarity on the results of the studies based on ASCE-7-16 values. Mr.
- Lew said that he would have to confirm the figures. Ms. Belair asked if there was a
- desire to change the code reference. Mr. Lopez answered that the code changes would come in the next ASCE-7-22.
- 37 Ms. Belair inquired about the implications of the site specifics in terms of being
- cumbersome or expensive. Mr. Lew answered that it depends on the site and who is
- <sup>39</sup> hired for the job. Mr. Lew added that more buildings are using site-specific studies. An
- 40 interested party made the point that USGS makes assumptions about these depending

on on-site specifications because there is insufficient data. The ASCE -7-22 is more 1 conservative than the site-specific studies. Mr. Lew added that those site-specific 2 studies in the bay area had a particular code. In site-specific, there is probabilistic 3 hazard seismic analysis and deterministic seismic analysis. Mr. Tokas contributed to 4 that point by saying that in 1999, HBSB put together a white paper on hospital new sites 5 from geohazard. Hence, the only way to determine the appropriate level of seismic 6 hazard from all perspectives is by site-specific analysis. 7 8 Mr. Hooper asked whether a site-specific study takes any physical analysis or physical 9 testing at a specific site. Mr. Lew claimed that they must understand the material 10 underneath the buildings because of sheer weight velocity. He explained how 11 12 earthquakes travel from rocks to the surface, so there must be an accurate reading on 13 that. 14 Information item and Action Item 15 None. 16 17 12. Presentation: Bagley-Keene Open Meeting Act and Its Restrictions Presenter: James Yi, HCAI Attorney 18 Discussion and public Input 19 Mr. Yi stated that the Bagley-Keen open meeting act is the statutory scheme that puts 20 requirements for boards and committees in times of meetings and decision making. He 21 explained the Act's purpose, which is to allow the public to fully participate in the state 22 23 body's decision-making. 24 Mr. Yi spoke about the applicability of the Act to HBSB. 25 • The Act required physical attendance, but due to COVID-19, the 26 27 attendance requirements are waived, hence the virtual meetings. Serial communications are prohibited to prevent board members from 28 taking actions or decisions outside the public meeting. 29 30 31 Mr. Yi cited the Act's meeting exemptions, which is: the public is allowed to contact specific board members and discuss what other board members have told them, social 32 gatherings, and conferences. However, board members are not allowed to discuss 33 34 meetings amongst themselves without the public. 35 Mr. Yi explained key provisions of the Act: 36

HBSB Full Board Meeting - 12/8/21 - 12/9/2021

16

1	<ul> <li>Notice should be issued ten days before the meeting.</li> </ul>
2 3	<ul> <li>There must be a specific agenda and purpose of the meeting to inform the public about what is going to be discussed in a meeting.</li> </ul>
4	<ul> <li>Notice must have the time and place for the meeting.</li> </ul>
5 6	<ul> <li>In an emergency or special meeting, the Board does not have to issue a 10-day prior notice.</li> </ul>
7	• The meeting must be open to the public.
8	• The public must be given a chance to participate, i.e., comment.
9	<ul> <li>Any member of the public can record or broadcast these meetings.</li> </ul>
10	<ul> <li>In closed sessions, the public cannot participate.</li> </ul>
11 12	<ul> <li>Meeting documents must be prepared before the meetings and made available to the public during the meeting.</li> </ul>
13	<ul> <li>Voting must be publicly recorded in the meeting minutes.</li> </ul>
14	<ul> <li>Penalties for non-compliance include civil and criminal.</li> </ul>
15 16 17	Mr. Clark had a concern about a case of putting together a white paper with a sub- committee regarding document preparation without public input. Mr. Yi clarified that in such cases, any decisions must be discussed in public meetings.
18 19 20 21 22	Mr. Yu talked about a previous sub-committee meeting where they designated people who were not part of the Board to contribute to a white paper, and so he wanted it discussed in the next meeting. Mr. Bliss commented on that and said that they asked non-board appointees to convene a working group of experts to provide advisory information from the white paper in that meeting.
23	
24 25 26	Mr. Naeim asked if the Act quorum requirements apply to communication between sub- committee members. Mr. Yi said that the quorum requirements only apply to sub- committees if they are assigned more than two members.
27	Information item and Action Item
28 29	None.
30	13 Review and approve 2022 Committee Assignments Goals and Meeting

- **13.** Review and approve 2022 Committee Assignments, Goals and Meeting
- 31 Calendar

HBSB Full Board Meeting – 12/8/21 – 12/9/2021

- 1 Presenter: Louise Belair, Board Chair
- 2 Discussion and public Input
- 3 **MOTION:** [Lopez/Mackey]
- 4 Ms. Belair summarized :

5 6 7	<ul> <li>The Board Procedures Committee (AD HOC) has one meeting scheduled for 2022 on January 26.</li> </ul>
8 9	<ul> <li>The Education and Outreach Committee meetings scheduled for February 23, May 25, August 17, and October 19, 2022.</li> </ul>
10 11	<ul> <li>The Energy Conservation and Management Committee meetings are scheduled on March 15, June 14, and September 13, 2022.</li> </ul>
12 13	<ul> <li>The Instrumentation Committee meetings are scheduled on January 20, April 7, and October 27, 2022.</li> </ul>
14 15	<ul> <li>The Structural and Nonstructural Regulations Committee meetings are scheduled on January 13, June 9, and September 22, 2022.</li> </ul>
16 17	<ul> <li>The Technology and Research Committee meetings are scheduled on March 23, July 27, and November 1, 2022.</li> </ul>
18 19	<ul> <li>Full Board meeting dates are April 28, August 11, December 7 and 8, 2022.</li> </ul>
20	
21 22	The Board voted unanimously to accept the 2022 Committee Assignments, Goals, and Meeting Calendar as presented with corrections noted.
23	Information item and Action Item
24	None.
25	
26	14. Inspection Services Unit Update
27	Presenter: Joe LaBrie FDD Inspection Services Unit Supervisor
28	<ul> <li>Inspection Services Unit to provide an update on accomplishments year-to-date.</li> </ul>
29	Discussion and public Input
30 31 32 33	Ms. Lachica talked about IOR certification and recertification and stated that in 2020 they had 753 certified inspectors, and in 2021 they added 102 inspectors. The pass rate for the exam is 63%.

- 1 Ms. Colosi presented the webinars held, which included Hospital Inspector
- 2 Recertification webinar, IOR webinar, and IOR plan reading webinar.
- 3

4 Mr. Ponce updated the field operation manual guide that gives field staff a general

5 understanding of HCAI field processes such as testing, inspection and observation

- 6 programs, field review projects, and completion and occupancy. It's updated every 15th
- 7 of the month by ISU staff.
- 8

9 Mr. LaBrie communicated that eTIO creates automation that allows a fluid dynamic

10 online cloud based TIO. He further explained ISU preconstruction and construction

- advisory seminars offer a developed presentation to healthcare facilities and project
- teams to identify quality assurance practices that yield the best chances for a successfulproject.
- 14

15 Mr. Ponce indicated that the objective of the IOR/CHA academy was to create a one-

16 year program for focused learning and development of people who aspire to become a

17 Certified Hospital Inspector to give the IOR a good sense of the overall construction

- 18 process.
- 19

20 Mr. Hoa reported on the development of a Field Staff Onboarding Curriculum, to

- 21 develop new HCAI field staff personnel with the expressed objective to increase
- 22 consistency statewide. He added that monthly compliance officer training is an ongoing
- administrative and technical training for HCAI compliance officers to improve
- 24 consistency in code understanding statewide.
- 25

Ms. Belair asked what the process is for a design team to get an ISU construction and

27 preconstruction advisory in place. Mr. LaBrie said that the process starts with a phone

call or email request. Ms. Belair followed up by asking when, in the phase of a project, is

the right time for the advisory Mr. LaBrie explained that the process is offered pre-

30 construction, but can be provided mid-construction, too.

Mr. O'Connor asked if the field operation was downloadable from the HCAI website. Mr.

32 LaBrie stated that it is not downloadable.

33

- 34 Mr. Naeim suggested that the ISU team provide a short seminar to engineering students
- at UCI, UCLA, and other places. Mr. LaBrie agreed to that and added that if they get a
- 36 green light from Mr. Tokas, they would be willing to. Mr. Tokas affirmed that he gave a

- 1 green light for the seminars. Mr. Altoontash thanked Mr. Naeim for suggesting the
- 2 seminars and added that the program is useful for cultivating future healthcare
- 3 engineers. Mr. LaBrie concluded that newer structural engineers aren't getting exposure
- 4 to this important material, so they welcome the idea.
- 5
- 6 Ms. Belair brought up the Codes and Processes Committee goal of revisiting MEP
- 7 system inspection requirements and wanted to know if Mr. LaBrie's team was looking
- 8 into that specific goal. Mr. LaBrie communicated that it wasn't their focal point, but if
- 9 approved, the team can look at that. Mr. Tokas stipulated that the team would provide
- 10 any assistance because in the end, it pays dividends.

# 11 Information item and Action Item

- 12 None.
- 13

# 14 15. Structural Services Section Update

- 15 **Presenter:** Roy Lobo, FDD Principal Structural Engineer
- Structural Services Section to provide an update on accomplishments year-to-date.

# 17 Discussion and public Input

- 18 Mr. Lobo started by saying that they have two units: the Seismic Compliance Unit and the Structural Support Unit. He gave a status of the AB 2190 program, indicating that 19 the program started in April 2019 with 43 faculties which were 93 buildings; 25 of those 20 21 buildings have resolved their compliance, 68 buildings are still active. In addition to that, 22 AB 2190 facilities progress to date are 11 facilities completed the work while eight facilities are not on track to meet the July 1, 2021, deadline and 24 facilities are on 23 track. In conclusion, Mr. Lobo stated that the estimation is that by 2025, 673 buildings 24 will be SPC-2. 25
- 26 Mr. Lobo gave a structural support unit update:
- OSHPD pre-approved programs have been upgraded from manual to
   online eService's portal
- A total of 77, 57 approved, 7 remarked, and 13 reviewed
- Structural/ nonstructural California amendments completed 45- and
   15-day public comment periods for code amendments
- OPAA renewals are valid for up to 6 years but not exceeding the
   approval expiration date by the DSA- LEA program or accreditation
   bodies, as applicable

- 1 Mr. Lobo also talked about the HCAI white paper on instrumentation, the current status
- 2 of HCAI instrumentation, the utility of hospital instrumentation, the role that alternative
- instrumentation and data analytics can play in the future and improving community
- 4 awareness of the value of strong motion instrumentation.
- 5
- 6 Ms. Belair asked if there were 52 buildings or 52 facilities that are NPC-5 compliant. Mr.
- 7 Lobo clarified that 52 buildings are compliant. Mr. Tokas summarized that a hospital
- 8 building must meet NPC-5 requirements as a whole; therefore, the building must meet
- 9 this requirement as designed and constructed.
- 10
- 11 Mr. Dandekar commended the presentation, especially the graphics and asked whether
- 12 the SPC-2 buildings provided essential services or support services. Mr. Lobo stated
- 13 that those buildings could provide all types of services. Mr. Dandekar then asked if the
- 14 instrumentation program is voluntary. Mr. Lobo answered that it depends on the owner's
- required instrumentation; Appendix L of the California Code identifies which buildings
- 16 fall under that category.
- 17
- Mr. Rainey had a question on the role of HCAI when an owner is not compliant with the
  deadline. Mr. Lobo gave answered that the latest deadline is 2030, and in the case
  when a building owner does not comply by the deadline, CPH would deactivate the
  owner's license.
- 22
- 23 Mr. Khorram if projects that come off HCAI's jurisdiction are taken over by local
- 24 agencies. Mr. Lobo explained that for a building to be under HCAI jurisdiction, it must
- 25 provide either acute care services or support services to the acute care services.
- 26 Information item and Action Item
- 27 None.
- 28

# 29 16. Building Standards Unit Update

- 30 Presenter: Richard Tannahill, FDD Building Standards Unit Supervisor
- Building Standards Unit to provide an update on accomplishments year-to-date.

# 32 Discussion and public Input

- 33 Mr. Tannahill reported that the Emergency Design Guide is about 70%-75% complete.
- 34 He highlighted that they are trying to provide means to make some of the COVID patient 35 provisions, permanent.

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1

- 2 Mr. Tannahill pointed out that the 2019 intervening code adoption cycle is complete, and
- 3 the triennial code adoption cycle is in process. There were changes in the
- 4 Administrative Code, like fees for small projects and changes to resubmittal time for the
- 5 projects. Regarding the Building Code, Mr. Tannahill communicated that they are
- 6 adding procedure rooms and Class 2 imaging rooms to allow facilities to continue using
- 7 those rooms with minor modifications versus changing the environment therein.
- 8

9 The 2022 BSU goals as presented by Mr. Tannahill were to complete the 2022 code 10 revision, look toward 2025 code changes, work with HBSB on 2022/2023 webinars

- series, update Plan Review Manual and FREER manual, and permanent COVID
- 12 allowances in code.

13

- 14 Ms. Belair asked if there is a timeline available for the 2025 code cycle. Mr. Tannahill
- 15 specified that the timeline is unavailable, but the unit will be mirroring the 18-month
- 16 timeline used six years ago.

17

- 18 Mr. O'Connor asked if facilities that made adjustments (due to COVID) to patient rooms,
- 19 favoring negative pressure, would be able to extend that. Mr. Tannahill said that it is a
- 20 work in progress and highlighted that HCAI is working with a few facilities that have
- requested permanent methods to have negative rooms, and two have already been
- 22 approved.
- 23 Information item and Action Item
- 24 None.
- 25
- 26 17. Fire Prevention Unit Update
- 27 Presenter: Nanci Timmins, FDD Chief Fire Life Safety Officer
- Fire Prevention Unit to provide an update on accomplishments year-to-date
- 29 Discussion and public Input
- 30 Ms. Timmins addressed the ban of toxic chemicals, PFAS, from firefighting foam that
- 31 will impact new and existing healthcare facilities She encouraged visiting the State Fire
- 32 Marshall website for more information, including deadlines and extensions.

33

- 1 Mr. Jackson thanked the Fire Prevention Unit for the UC outreach and training their
- 2 deputies to be part of the HCAI team. Ms. Timmins acknowledged and appreciated the
- 3 teamwork.
- 4

# 5 Information item and Action Item

- 6 None.
- 7
- 8 18. Electronic Services Update
- 9 Presenter: Chris Tokas, FDD Deputy Director
- Electronic Services Unit to provide an update on accomplishments year-to-date.
- 11

# 12 **Discussion and public Input**

13 Mr. Tokas gave updates on Electronic Services and Advisory Committees' role, which

14 comprises 11 members. He spoke on strategic needs assessment and the work plan

development process. The metric used to create a rating were: user quality, frequency,

time saved, and eTIOs used to evaluate needs. Mr. Tokas deliberated on the 2022

17 Electronic Service goals, which involved eTIO evaluations, integrated review

18 enhancements in Accela, and Accella platform upgrade.

19

Mr. O'Connor commented on the presentation and particularly how Mr. Tokas gave the updates and activities in-depth. Mr. Tokas appreciated Mr. O'Connor for pointing that out and said that the kudos belongs to HCAI staff. Ms. Belair celebrated that Mr. Tokas mentioned that HCAI electronic services are ten years ahead of other agencies and commended the team. Mr. Tokas thanked Ms. Belair on behalf of the team.

# 25 Information item and Action Item

26 None.

27

# 1 19. FDD Update

- 2 Presenter: Chris Tokas, FDD Deputy Director
- Workload and performance
- 4 Personnel changes

## 5 **Discussion and public Input**

- 6 Mr. Tokas touched on staffing changes and talked about Paul Coleman's achievements 7 and retirement and the appointment of Richard Tannahill as acting deputy division chief.
- 8 Mr. Tokas gave a detailed report on FDD's achievements in 2021, and highlighted the
- 9 OSHPD Emergency Operation Center webpage, which is constantly updated with the
- 10 latest information related to emergency events and COVID resources and provided a
- 11 link to that page. Mr. Tokas also reported on the FDD Manager and Supervisor meeting,
- 12 the topics discussed and FDD's top goals for 2022.
- 13
- 14 Mr. Hussain, HCAI incident commander, explained Emergency operation center
- activities in 2021. He gave a clear detail of year-to-date wildfire and earthquake
- 16 activities and how the evacuations occurred.
- 17
- 18 Mr. Naeim commented on the presentation and congratulated Mr. Tokas for having the
- 19 force and motivation evident in his presentation and his work. Mr. Dandekar reminded
- the Board that the 50th anniversary of the initiation of the Alquist Act is coming up. Mr.
- 21 Tokas confirmed the anniversary and highlighted the importance of the Act. He detailed
- that it's a unique program that has paid huge dividends and has become a beacon for
- the rest of the world.
- 24 Information item and Action Item
- 25 None.
- 26

# 27 **20.** Comments from the Public/Board Members on issues not on this agenda

28 Presenter: Louise Belair, Board Chair

### 29 Discussion and public Input

- 30 Ms. Belair thanked everyone for participating in the meetings throughout the year. She
- acknowledged HCAI's work in this time of change and echoed Mr. Tokas that HCAI is
- 32 making a better place for the health and safety of Californians. Mr. Tokas appreciated
- the effort and the energy of the HBSB staff for the entire year to make the meetings
- 34 possible and successful regardless of the technical difficulties.

## 1 Information item and Action Item

- 2 None.
- 3 21. Adjournment
- 4 Ms. Belair adjourned the meeting on 12/9/2021 at approximately 12:27 p.m.

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# Technology Committee

Draft Meeting Report/Minutes

SNovember 10, 2021

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# HCAI Department of Health Care Access and Information

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



### HOSPITAL BUILDING SAFETY BOARD Technology and Research Committee

Wednesday, November 10, 2021 9:00 a.m. - 3:00 p.m.

Teleconference Meeting Access: HBSB GoToMeeting Technology Committee Access Code: 490-358-493

### **Committee Members Present:**

Bruce Rainey, Chair Michael Foulkes, Vice Chair David Bliss Deepak Dandekar Bert Hurlbut Roy Lopez Scott Mackey

### Presenters:

Theodora Alexakis, Terragon Environmental Eric Cote, Powered for Patients John Huston, Division 25 LLC Andrew Nix, Schneider Electric Tad Radecki, Powered for Patients Troy Savage, Mazetti

### **Consulting Members:**

Benjamin Broder Gary Dunger Eric Johnson

### HCAI Staff Present:

Elizabeth Landsberg, HCAI Director Chris Tokas, Acting FDD Deputy Director Arash Altoontash Richard Tannahill Hussain Bhatia Bill Gow Joe Labrie Diana Scaturro Carl Sherman Jamie Schnick Nanci Timmins James Yi

### HBSB Staff:

Ken Yu, Executive Director Joanne Jolls Evett Torres

### 1 **1. Welcome and Introductions**

2 Mr. Rainey, Committee Chair, called the meeting to order on November 10, 2021, at 9:00 a.m.,

3 and HCAI Executive Director Ken Yu called roll.

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

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

4

- 5 Mr. Yu read the advisory OSHPD officially become Department of Healthcare Access and
- Information, or HCAI and Government Code section 11133 continues to provide temporary
   modifications to the Bagley Keene.
- 8
- 9 **3. Power P.I.O.N.E.E.R** (Power Information Needed to Expedite Emergency Response)
- 10 **Presenter:** Eric Cote, Powered for Patients (or designee)
- Review of Los Angeles County Emergency Medical Services Agency program to deploy
   technology to single-generator hospitals which provides 24/7 monitoring and triggers
   automated, real-time alerts to designated individuals
- Overview of the technology with a briefing on its recent deployment to three LA County
   hospitals
- 16 Discussion on an expedited review process to facilitate faster deployment of technology
- 17 Mr. Cote gave recommendations on better protocols to handle emergency threats to power. These
- 18 include developing a comprehensive census of emergency power systems to identify single
- 19 generator facilities and generators that are 30 years and above. Also, developing early warning
- 20 notification and status update protocol when an emergency power faces a threat during a power
- 21 outage.22
- Mr. Cote talked about recommendations on single generator hospitals in which the PIONEER tool
   would be used. PIONEER can enable:
- Faster coordination between private sector service providers and government
   officials to address any impediments to service team response
- Expedited preparations for the deployment of government generators if they are needed
  - Accelerated restoration of secondary circuits feeding facility when available
  - Valuable head start for initial evacuation planning
- 30 31

29

- Mr. Cote explained that PIONEER relies on Fault Detection & Diagnostic technology that acts as a heart monitor for emergency power systems, HVAC systems, and other industrial equipment.
- 34 Discussion and public Input
- 35
- 36 Mr. Rainey wanted confirmation on the requirement for a permit and installation of a gateway.
- Mr. Radecki confirmed that the gateway weighs less than 20 pounds, is connected wirelessly or
- through a cellular antenna, and has no need for a power source other than the generator battery.
- 39 Concluding, Mr. Radecki confirmed that there is a required permit for that.
- 40

1	Mr. Tannahill aksed if the trigger requirement would involve either building regulation or be based
2	on weight. Mr. Cote answered that the system monitors the emergency power system and not the
3	building management system. So, the system gives notification anytime emergency power turns on
4	or when there are mechanical problems with the emergency systems.
5	
6	Mr. Tannahill also wanted to know what would happen in case the system fails. Mr. Radecki said
7	that in case of a system failure nothing will happen affecting the facility since the system is just for
8	monitoring.
9	
10	Mr. Cote asked if the deployment of the PIONEER gateway to an ATS device, would be done
11	magnetically or through some other nonmagnetic approach. Mr. Radecki confirmed that it would be
12	done magnetically.
13	
14	Mr. Rainey commented that since the PIONEER system can shut down the generator as well as
15	start it up, what was the risk point for hospitals in case of a malware attack of the system. Mr. Cote
16	answered that facilities designate permissions levels for their staff so only a few people on senior-
17	level have the remote start capabilities to control the system. That way the system is safe from
18	malware.
19	
20	Mr. Radecki added to that point and said that the system only monitors emergency situations
21	hence, it would not shut down in case of an emergency.
22	
23	Mr. Rainey asked whether the system could start or auto start the generator, and Mr. Radecki
24	affirmed that it auto starts the generator in the event of a power outage.
25	
26	Mr. Cote asked for clarification about whether the system can shut down in the event of a power
27	outage. Mr. Radecki expressed that it can shut down, and can apply and remove an auto stop
28	signal.
29	
30	Mr. Schnick wanted to know more about the ATS equipment and how it can communicate to the
31	generator to auto start in case of an emergency power outage. Mr. Radecki explained that the ATS
32	communicates to the generator through a set of contacts. The transfer switch does monitor
33	reliability of the normal power source, and when the power goes off, it sends a signal to start the
34	generator. And when the power sources are reliable and normal from the utility, then it sends a
35	signal to it switch back over and starts cooling down the generator.
36	
37	Mr. Schnick and Mr. Cote wanted to know how it turns off when the power comes back on. Mr.
38	Radecki explained that the generator must be on auto for that signal to work.
39	
40	Mr. Cote wanted to know the connection between PIONEER gateway and ATS. Mr. Radecki said
41	that the gateway is just a monitoring function to show whether the power utility at the ATS is
42	acceptable and if it's set on emergency or normal.
43	

### 1 Information item and Action Item

- 2 None
- 3 4. Waste-To-Energy
- 4 Presenter: Troy Savage, Mazzetti, and Theodora Alexakis, Terragon Environmental
   5 Technologies
- 6 Review of state and federal carbonization goals
- Definition of Scope 3 emissions (indirect emissions from healthcare supply chain, waste, commuting, etc.)
- Discussion on how emissions may be reduced by using the waste as a source of beneficial
   thermal energy for hospitals
- Previous waste-to-energy systems versus new technology solutions which convert waste to
   energy with reduced negative environmental impact
- How waste-to-energy systems can process a hospital's complex medical and hazardous waste
   streams, removing the need for autoclaving, and eliminating the need to truck this waste long
   distances
- Mr. Savage defined the scope of three emissions which are indirect emissions from healthcare
  supply chain, waste, commuting, etc. He expounded on how the emissions would be reduced by
  using waste as a source of beneficial thermal energy for hospitals. Mr. Savage showed the hospital
- 19 waste to energy system process in which hospital's complex and hazardous waste streams are
- done to remove the need for evacuation and eliminate the need to truck this waste long distances.
- Ms. Alexakis presented on previous waste emission system versus new technology solution which
   converts waste to energy with reduced negative environmental impact. These new technologies
   included MAGS (Micro Auto Gasification System) to turn waste to produce hot water to be used in
   hospitals and on-board ships, and WETT (Wastewater Treatment Technology).
- 25 26

28 29

- 27 Ms. Alexakis discussed the safety and security of MAG stating that:
  - No manipulation of waste is needed in that there is no shredding or sorting of the waste products
- Waste volume is reduced by 95% to produce safe inert biochar.
- The operation is under vacuum
- The machine surfaces are cold to touch so no accidents and minimal to exhaust.
- The process is certified by various certification bodies
- 34

36

- 35 She also talked about the importance of waste to energy conversion in hospitals in that:
  - The process is efficient and safe for the destruction of hazardous waste
- Elimination of residual risk through immediate and on-site conversation to energy reduces contamination risk in handling or transporting waste over long distances
- Waste converted is 500kg/day which produces 120kilowatts of thermal energy
| 1<br>2<br>3<br>4<br>5            | <ul> <li>Reduced emission of atmospheric pollutants and GHGs from transportation, elimination incineration/landfill, and heating</li> <li>Elimination of third-party waste hauling and costly waste products. Avoiding reliance on third-party companies may disrupt services in hospitals, increase the price, and may not manage the waste properly.</li> </ul>   |
|----------------------------------|---|
| 6                                | Discussion and public Input   |
| 7<br>8<br>9<br>10<br>11          | Mr. Mackey asked about the debris and sediments that remain after waste goes through MAG, and how is Terragon dealing with that since the debris contains sharp objects. Ms. Alexakis said that the debris is non-hazardous waste that can be used for landscaping like in hotels, but the rest of the sharp objects need to be taken into landfills.   |
| 12<br>13<br>14<br>15<br>16       | <ul> <li>Mr. Bliss asked about the energy consumption and peak load of the system. Ms. Alexakis detailed that MAG comes in one size. And it can treat 25kg per hour of hospital waste, uses 22kilowatts of energy and electricity, and in turn produces 120kilowatts of thermal energy.</li> <li>Mr. Rainey asked if the machine is electric or gas-powered. Ms. Alexakis responded that the machine areas alectricity is an an an alectricity in the produces.</li> </ul>                |
| 17                               | machine runs on gas, electricity is only used in the pump.  |
| 18                               | Information item and Action Item  |
| 19                               | None  |
| 20                               | 5. Deploying a Digital Building Strategy  |
| 21                               | Presenter: John Huston, Division 25 LLC   |
| 22                               | Building Management System standards  |
| 23                               | Concepts and system architecture options  |
| 24                               | <ul> <li>Integration approach –High performance or sole source lock-in?</li> </ul>  |
| 25                               | Deployment methods  |
| 26                               | Business approach, support, and guidance  |
| 27                               | <ul> <li>Value-add based on facility management expertise, resources, requirements, and goals</li> </ul>  |
| 28<br>29<br>30<br>31             | Mr. Huston talked about building management system standards, concept and system architecture options, deployment methods, business approach, support and guidance, and value-add based on facility management expertise, resources, requirements, and goals.   |
| 32<br>33<br>34<br>35<br>36<br>37 | <ul> <li>He also talked about opportunities for advanced application in Digital Building strategy, such as:</li> <li>Sole sourced, which includes BMS Market norm, competitive bid, no upfront design, controls contract design system, and expensive maintenance</li> <li>Open-sourced, which includes commitment to key stakeholders, design 100% upfront, the production site is multiple sourced, communication is identical across all devices, integration device level.</li> </ul> |

#### 1 Discussion and public Input

- 2 Mr. Rainey asked for clarification on multiple versus one service vendor for installation due to the
- availability of resources. Mr. Huston answered that digital building strategy can be easily controlled
   now due to IP advancement, allowing for multiple service vendors.
- 5
- 6 Mr. Healy wanted to know if there is a common mission for creating a health care environment to 7 improve patient outcomes and life in general. Mr. Huston explained that there is no standard as of 8 now but with IP advancement, manufactures are moving towards that goal.

#### 9 Information item and Action Item

10 • None

# Securing Healthcare Infrastructure: How to be effective about protecting yourself from ransomware

- 13 **Presenter:** Andrew Nix, Schneider Electric (or designee)
- Basics of ransomware; how it gets onto your network, and the damage it does
- General framework for how organizations can defend themselves with IEC 62443 Security
   Levels, fundamentals, and standards
- What to do if it happens to your organization
- 18 Mr. Nix talked about how basic ransomware in computers gets companies' information, then the
- 19 company is held at ransom to pay some amount to get the information back. Mr. Nix pointed out
- 20 that it gets into your network through credential scraping, phishing messages, infected websites,
- 21 the sale of classified information, and the damage it does.
- 22

23 Mr. Nix talked about types of ransomware including malware- a bug that employs encryption to

- hold victim information at ransom. With malware, the user can't access files, databases, or
- 25 applications both in IT and OT (Operational Technology). The bug spreads automatically to an
- entire network, database, and file servers and lastly, the victim must pay to receive a decrypterwhich is not guaranteed to work.
- 28
- 29 The other type of ransomware that Mr. Nix spoke about was Ransomware as a Service (RaaS).
- 30 Here, malware service allows ransomware developers to sell their automated creations for users to
- 31 deploy on victims. Non-technical criminals buy their wares and launch the infections while paying
- 32 the developers a percentage of their take.
- 33
- 34 He also pointed out that the reason why ransomware is effective is that malware is recognized as a
- risk factor. Operational systems are now widely recognized as an attack target in respect to safety
- and production, in that, the more the risk, the more the pain thus more money for the attackers.
- 37 Also, ransomware and cryptocurrency are nearly impossible to trace and there are multiple levels
- of separation between the developers and the users of the tools. Another point is that ransomware
- tools are becoming more advanced, easier for a non-technical user to deploy. A scarcity of
- qualified resources with cybersecurity expertise in operation hence enabling ransomware to beeffective.

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- Mr. Nix talked about the general framework for how organizations can defend themselves with IEC 1
- 2 62443 Security levels, fundamentals, and standards. These include conducting cyber security

3 assessments, backing up data, storing critical configurations, and keeping up to date the

4 cybersecurity pillar. There are security levels involved in IEC 62443 which include: 5

- Security level 1- protection against casual or coincidental violation
- Security level 2- protection against intentional violation using simple means with low resources generic skills and low motivation
- 8 Security level 3- protection against intentional violation using sophisticated means 9 with moderate resources, system-specific skills, and moderate motivation
- 10 Protection against intentional violation using sophisticated means with extended resources, system-specific skills, and high motivation 11
- 12

6

7

13 Mr. Nix explained the need to isolate the affected device to stop the spread in case of a malware 14 attack. Then assess the damage and report the incident to the authorities. After that check on the 15 backup and evaluate the decryption option, then learn from the experience and move on.

#### **Discussion and public Input** 16

17 Mr. Rainey asked about cyber security in hospitals in that most hospitals are not keen on IT, he

wanted to know what measures or solutions can be used in such cases. Mr. Nix responded that 18

19 there are Als that have been invented that can detect malware and warn in case of a potential risk

- 20 of cyber security.
- 21

#### 22 Information item and Action Item

23 None •

#### 24 7. OSHPD 2022 California Electrical Code (CEC) Amendment for Power over Ethernet

- 25 (PoE) Wiring
- 26 **Presenter:** Bill Gow, HCAI (or designee)
- 27 Update on the OSHPD PoE amendment for the 2022 CEC •
- All the status codes of the proposal have been approved 28 •
- 29 Mr. Gow talked about the approved amendment to article 517.80 which is equivalent insulation and
- 30 isolation required for the electrical distribution systems in patient care areas to be provided for
- communications, signaling system, data system circuits, fire alarm systems, and systems less than 31
- 32 201 volts, nominal.
- 33
- 34 Mr. Gow brought up that at the national level, there are changes happening that mirror an
- 35 allowance that if you are using PoE, you don't have to meet the mechanical protection
- 36 requirements for conduit when using class two circuits that transmit power data, or PoE. PoE can
- be used as a signaling system and communication system. 37

#### 1 Discussion and public Input

- 2 Mr. Rainey asked about the dates of approval of the code of proposals and wanted to know when
- a project owner can implement them. Mr. Gow answered that they can be implemented on the
   project starting January 2023.
- 5 Information item and Action Item
- 6 None
- 7
- 8 8. Committee goals for 2022
- 9 Presenter: Mr. Rainey, Chair (or designee)
- 10 Discuss goals for Committee in the coming year
- 11 Mr. Rainey discussed:
- 12 Explore subjects of telemedicine and robotics
- Continuing evolution of interventional imaging, have vendors present current equipment
   capabilities and look at impacts to future shielding requirements.
- Monitor CDPH electronic health records redundancy issues in the event of a power failure and
   watches for potential effects to code.
- Emerging tools and technologies that help reduce the carbon footprint for healthcare facilities

#### 18 **Discussion and public Input**

- 19 Mr. Rainey asked if there were topics from HCAI staff that should be considered.
- 20
- 21 Mr. Tannahill suggested that the committee expound more on cyber security, to know their
- 22 vulnerability, and what technologies can be applied.
- 23
- Mr. Mackey also wanted the committee to discuss the added authority involved with off-site electronic records storage
- 26 Information item and Action Item
- 27 None

28

#### 29 9. Comments from the Public/Committee Members on issues not on this agenda

30 **Presenter:** Mr. Rainey, Chair (or designee)

31

- 32 None.
- 33 Information item and Action Item
- 34 None
- 35

HBSB Technology and Research Committee Meeting – 11/10/21

#### 1 10. Adjournment

2 Mr. Rainey adjourned the meeting at approximately 12:28 p.m.

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# Structural and Nonstructural Regulations Committee

Draft Meeting Report/Minutes

January 13, 2022

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#### Gavin Newsom, Governor

# HCAi Department of Health Care Access and Information

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



#### HOSPITAL BUILDING SAFETY BOARD Structural and Non-Structural Regulations Committee

Thursday, Jan 13, 2022 9:00 a.m. - 3:00 p.m.

#### **Teleconference Meeting Access:**

HBSB GoToMeeting SNSR Committee Access Code: 833-722-805

#### **Committee Members:**

Jim Malley, Chair Fazard Naeim, Vice-Chair Bruce Clark Mike Hooper Marshall Lew Michael O'Connor Jennifer Thornburg

#### **Consulting Member:**

Mark Hershberg

#### HCAI Staff:

Ken Yu, Executive Director Joanne Jolls Evett Torres

#### HCAI Staff:

Chris Tokas, FDD Deputy Director Arash Altoontash Richard Tannahill Jeff Kikumoto Joe LaBrie Roy Lobo Jeremy Marion Tim Piland Jamie Schnick Carl Scheueman Ali Sumer James Yi

#### 1 1. Call to Order and Welcome

- 2 Jim Malley, Committee Chair, called the meeting to order on Jan 13, 2021, at 9:00 a.m.,
- and HCAI Executive Director, Ken Yu called roll.
- 4

#### 2. Roll Call and Meeting Advisories/Expectations 1 Six members of the Committee present constitute a quorum. There being seven present 2 at the time of roll, a quorum was established. 3 Mr. Yu read the public announcement regarding COVID-19, meeting rules and 4 5 procedures. 6 3. Review the June 30, 2021, final meeting report/minutes approved at the 7 December 8-9, 2021, Full Board Meeting 8 Presenter: Jim Malley, Committee Chair 9 10 Mr. Malley reported on the June 30, 2021 Structural and Non-structural Regulation 11 Committee meeting, which the Full Board approved at the December 8-9, 2021 12 meeting. 13 14 **Discussion and Input** 15 16 None. 17 Informational and Action item 18 None. 19 20 4. Discuss implementation of Senate Bill (SB) 395 and define the potential 21 22 program Presenter: Ali Sumer, HCAI 23 SB 395 established the Small and Rural Hospital Relief Program under the 24 25 administration of HCAI for the purpose of funding seismic safety compliance with respect to small hospitals, rural hospitals, and critical access hospitals in the 26 state. HCAI Policy Intent Notice (PIN) will include an application process outline 27 and program details to provide funding to qualifying facilities to use in the 28 advancement of their seismic compliance plans. 29 30 Mr. Sumer introduced SB 395, stating that it went into effect January 1, 2022 and 31 32 established the Small and Rural Hospital Relief Program (SRHRP). SRHRP is a grant program for small, rural, and critical access hospitals to apply and receive funding for 33 seismic safety compliance projects. SRHRP gets funding from the California Electronic 34 Cigarette Excise Tax; the funds are channeled through HCAI. Mr. Sumer added that the 35 SRHRP program directly benefits communities at risk of losing access to healthcare at 36 37 small and remote facilities. It requires assistance in organizing cost, and time-effective compliance programs that can be a sequential funding package. The Case 38 Management Services will oversee compliance program progress for facilities under 39

40 SRHRP. Mr. Sumer pointed out that facilities under SRHRP must be small, rural, or

Page 2 of 8

- 1 critical hospitals that are financially burdened. This financial burden may result in the
- 2 facility's closure, which would impact access to healthcare in the surrounding
- 3 community.
- 4

5 Jeremy Marion, Deputy Director of the Cal-Mortgage Division, discussed the Cal-

- 6 Mortgage Loan Insurance program, which provides access to low-cost financing to
- 7 expand and improve healthcare availability at no cost to taxpayers. Mr. Marion
- 8 explained that the program helps borrowers obtain a loan by issuing a tax-exempt
- 9 municipal bond or bank loan, and the lender receives a guarantee from the Cal-
- 10 Mortgage Loan Insurance program. In case of default, the loan is paid by the State of
- 11 California. Mr. Marion amplified the role of Cal-Mortgage loan and FDD in SB 395. He
- 12 stated that Cal-Mortgage would administer application intake of the grant program and
- re-evaluate the financial viability of the proposal. FDD compliance unit will review
- applicants' seismic needs and submit their plans for which they seek an award. HCAI's
- 15 Information Services Division will design an online application portal for applications.
- 16

17 Mr. Sumer stated that the money for the fund would start being collected on July 1,

- 2022, to the fund account. The fund is to be used in the advancement of their seismiccompliance plans.
- 20

#### 21 Discussion and Input

22

Mr. O'Connor asked about the program's eligibility in determining the community's need for these facilities and asked if being designated a critical access facility automatically meets the qualification. Mr. Sumer replied that a critical access facility is not the only qualification. There's a need for some selection and ranking among the qualified applicants.

28

Mr. Malley inquired if the \$2-3 million goes directly to the hospitals and how that effects the loans that that Cal-Mortgage will be backing. Mr. Marion reported that the program is to get a 10% fund from the Electronic Cigarette Excise Tax, so the \$2-3 million figure is just an estimate of how much will come in, in the first 12 months. That amount will vary depending on the sale of electronic cigarettes. Mr. Marion explained that if a hospital is seeking a grant and needs additional financing, it can apply for a loan through the program.

36

## 37 Informational and Action item

38 None.

39

## **5.** Updates to the OSHPD Special Seismic Certification Approval (OSP) PIN 55

41 Presenter: Roy Lobo, Tim Piland, HCAI

HBSB- Structural and Non-Structural Regulations Committee -1/13/2022

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#### Review of updates

- 1 2
- Mr. Lobo explained that HCAI changed the Special Seismic Certification Preapproval 3 program (OSP) in the 2019 California Building Code. This Policy Intent Notice (PIN) 4 summarizes the processes and procedures for the OSP Program and generic issues 5 related to special seismic certification. Mr. Lobo highlighted the major updates on PIN 6 7 55. 8
- 9 • Update of the code reference to current code changed the name from OSHPD to HCAI 10
- Permit alternate shake table testing to AC 156 approved by the building official 11
- Require flexible connections to distribution systems for seismically certified 12 components 13
- Clarified that components with an OSP meet the certificate of compliance 14 requirement code 15
- 16 Update requirements from imaging equipment to a minimum of one X-ray or 17 Fluoroscopy machine
- 18
- 19

Mr. Lobo cited that the building code section 1704.5 and ASCE 7 section 13.2.2 require 20 equipment to have a certificate of compliance. He disclosed the development of an 21 FAQs section on their website to deal with backlogs and expired OSP questions. On the 22 23 applications and submittal requirements, Mr. Lobo gave details on the two groups of applications; Group 1 and Group 2 documents posted directly on the website and sent 24 via email can now be sent via the eServices portal located on the HCAI website. 25

Added requirements for acceptance of vibration isolators for equipment support

26

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

28

An interested party asked for clarification regarding the required flexible connection to 29 the distribution system for a certified seismic component. Further inquiring if Mr. Lobo 30 was referencing a terminal unit or VAV box with connections on the piping or the 31 ductwork side of the connection. Mr. Lobo answered that whatever is in that seismic-32 certified component must be flexible. The interested party asked if in a scenario where 33 34 the VAV box is 75 pounds and originally connected to the ductwork, does it qualify for seismic certification. Mr. Lobo said that in that case, it would not qualify. The interested 35 party followed up by asking if a chiller that is seismically certified can be substituted with 36 an isolator if it is equivalent. Mr. Lobo replied that it could be substituted if the chiller met 37 the installation requirements. 38

- 39
- Mr. Naeim inquired if the requirements of the springs in vibration isolators is for size or 40
- stiffness? Mr. Lobo confirmed that the requirements are larger in capacity, stiffness, and 41
- strength. On that point, Mr. Naeim further asked if the change in the stiffness changes 42

Page 4 of 8

1 2	the vibration characteristic of the spring. Mr. Lobo affirmed that it does, but that there is a limit of the flex connection, so once it reaches that limit, it no longer matters.
3 4 5	Mr. Lobo suggested the board give the go-ahead with the changes discussed, and so the changes be published on their internal website.
6 7 8 9 10	<b>MOTION:</b> [Naeim/Lew] The committee unanimously approved the changes on PIN 55 as presented with corrections noted.
11 12 13	Informational and Action item None.
14 15	6. Updates to the OSHPD Preapproved Agency for Structural Tests and Special Inspection PIN 58
16	Presenter: Roy Lobo and Jeff Kikumoto, HCAI
17	Review of updates
18 19 20 21	Mr. Lobo explained that PIN 58 summarizes the processes and procedures for the OPAA program for structural tests, special inspections, and generic issues related to approved agencies. Mr. Lobo cited major updates to PIN 58:
22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38	<ul> <li>Testing agencies must comply with ISO/IEC 17025, and inspection agencies must comply with ISO/IEC 17020</li> <li>All approved agencies are required to have a full-time engineering manager who supervises the work, and reviews, stamps, and signs all testing reports for conformance with approved plans and specifications</li> <li>Reduced the validity of the approval from 6 years to 4 years, but not greater than the validity of the DSA-LEA program</li> <li>Updating personal or certification data will be charged as T&amp;M.</li> <li>Update codes and references standards to current versions of the code</li> </ul> On language changes in PIN 58, Mr. Lobo indicated that the purpose of the PIN is to have approved agencies be competent and independent from the contractor responsible for the work being inspected. There was clarification on requirements ISO 17025, a standard used by testing agencies and calibration laboratories. The language states, "The testing agencies, who have demonstrated compliance to this standard with proper certification, are accepted by the department as approved testing agencies with the scope of accreditation." Mr. Lobo specified the requirement for the full-time
39 40 41	<ul><li>engineering manager:</li><li>The manager should be registered as a civil engineer.</li></ul>

HBSB- Structural and Non-Structural Regulations Committee -1/13/2022

- Should have a minimum of 5 years' experience. 1 •
- Needs to supervise all testing, and sign and stamp the test reports. 2 •
  - Ensure all the test technicians are qualified and certified. •
- 4 Should not be employed by any other laboratory agency that provides special • 5 inspection services.
- 6

3

Mr. Lobo added another language addition regarding charges for the renewal 7 application, which is \$500 for both testing and inspection, or \$250 for one or the other. 8 Also, the application renewal process for testing and inspection is limited to within six 9 months of the OPAA expiration date. The other language addition was updating 10 personnel or certification data for test technicians or special inspectors would be 11 invoiced on a time and material basis beyond the initial approval. 12 13 14

15

# **Discussion and Input**

Mr. Malley asked if engineering managers approve inspection reports. Mr. LaBrie stated 16 they are trying to get engineering managers to approve inspection reports since special 17 inspectors are currently the only ones that can approve them. Mr. Kikumoto added that 18 the engineering manager for the agency is responsible for anything that goes out of that 19 agency, so if there's been a change on special inspectors, the engineering manager 20

21 verifies the document before it goes out as an official document from the agency.

22

Mr. Malley asked Mr. LaBrie if the last sentence of paragraph 10 should be stricken. 23

Mr. LaBrie agreed to have internal coordination, then get back to the committee. Mr. 24

25 Hooper also suggested that Mr. LaBrie and the team also talk about the number of

- special reports and test reports to be individually stamped and signed, and for those 26
- reports to be dealt with collectively instead of individually. Mr. LaBrie affirmed that the 27
- team would also look at that. 28
- 29

#### 30 **MOTION:** [Naeim/Hooper]

31 The committee voted to approve PIN 58, subject to change in item number 10, to be

- revised as presented. Mr. Yu took a roll call vote: 32
- Farzad Naeim yes 33
- Bruce Clark yes 34
- Mark Hershberg abstain 35
- Mike Hooper yes 36
- 37 Marshall Lew - yes
- Michael O'Connor yes 38
- Jennifer Thornburg yes 39
- 40
- 41 Informational and Action item
- None. 42

HBSB- Structural and Non-Structural Regulations Committee -1/13/2022

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#### 1 7. Proposed amendments to the 2022 California Administrative Code, Title 24,

### 2 Part 1

Presenter: Roy Lobo, Chris Tokas, HCAI 3 Amendments to Chapter 7, Article 7-115 (d) preapprovals 4 5 Mr. Lobo discussed the changes made to Part 1, section 7-115d, which listed how 6 OPMs will be incorporated in construction projects. The changes showed how those preapprovals could be brought to the construction document. In item 2, there was an 7 exception stating that single OPM preapprovals, where all details are identified on the 8 preapproval, may be incorporated by reference. 9 **Discussion and Input** 10 11 Mr. Malley asked whether HCAI will determine if OPMs meet preapproval standards or if 12 it is up to the engineer to decide if the details qualify. Mr. Lobo expressed that if it's a 13 single OPM, it can be incorporated by reference, but if the OPM has multiple details, 14 there are different ways substrates can attach it. Mr. Kikumoto added that for multiple 15 OPMs, it's up to the engineer to show which details he plans to use on the project. 16 17 Mr. Malley asked what happens when the engineer incorporates OPMs by reference, 18 then HCAI in reviewing says that that OPM can't be incorporated. Mr. Lobo responded 19 20 that they need to develop a system of ensuring ways of characterizing the OPMs using examples. He said that the changes should be effective for the 2022 mid-cycle code, 21 giving HCAI time to come up with examples to demonstrate that system. 22 23 **MOTION:** [Naeim/Lew] 24 The committee unanimously approved the proposed amendment as presented with 25 changes noted. 26 27 Informational and Action item 28 None. 29 30 8. Proposed amendments to the 2022 California Existing Building Code, Title 24, 31 Part 10 32 Presenter: Roy Lobo, Ali Sumer, HCAI 33 Amendments to Chapter 3A, Ground motion hazard level for evaluation and 34 retrofit of non-conforming hospital buildings to SPC-4D 35 Mr. Summer discussed SPC 4D and document ASCE 41-13. These documents were 36 introduced in 2016 with the intent to use ASCE 41-13 so that there are no big changes 37 as the code development continues. In 2016 CBC, there was a modification in chapter 38 34, ASCE 41 section 2.4, which states that instead of using ASCE 41-13, use ASCE 7, 39

40 where there are rules to construct response spectra and acceleration time histories. In

Page 7 of 8

1	2019, questions arose on the construction of response spectra and rules regarding
2	acceleration time histories, so there were differences between ASCE 7 and ASCE 41-
3	13. There is a need to connect back to ASCE 7 to have a precise language with ASCE
4	41-13. Mr. Sumer specified that the wordings for the language would be proposed in the
5	next meeting.
6	
7	Discussion and Input
8	
9	Ms. Thornburg inquired if HCAI allows designers to choose between modern ground
10	motion or the old ASCE 7-10 as applied in 2016. Mr. Sumer responded that the baseline
11	is to use the older version, which started the SPC 4D, but if the designers see an
12	advantage to using a newer version, HCAI will look at it case by case.
13	
14	MOTION: [Naeim/Lew]
15	The committee voted unanimously to approve the proposal to develop the language for
16	review as presented.
17	
18	Informational and Action item
19	None.
20	
21	9. Comments from the Public/Committee Members on issues not on this agenda
22	Presenter: Jim Malley, Committee Chair
23	
24	Discussion and Input
25	None.
26	
27	Informational and Action item
28	Mr. Malley thanked the HCAI staff for their presentation and looked forward to continued
29	progress in the next meeting.
30	
31	10. Adjournment
32	Mr. Malley adjourned the meeting on Jan 13, 2022, at approximately 10:49 a.m.

# Ad hoc Board Procedures Committee

Draft Meeting Report/Minutes

January 26, 2022

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#### Gavin Newsom, Governor

# HCAI Department of Health Care Access and Information

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



#### HOSPITAL BUILDING SAFETY BOARD Ad Hoc Board Procedures Committee

Wednesday, January 26, 2022 9:00 a.m. – 3:00 p.m.

#### **Teleconference Meeting Access:**

HBSB GoToMeeting Board and Procedures Committee Access Code: 834-687-925

#### **Committee Members Present**

Michael Foulkes, Chair Pete Kreuser, Vice-Chair Louise Belair Bruce Rainey <u>HCAI Staff</u> Richard Tannahill Joe LaBrie Carl Scheuerman James Yi

#### HBSB Staff

Ken Yu, Executive Director Joanne Jolls Evett Torres

#### 1 1. Call to Order and Welcome

- 2 Michael Foulkes, Committee Chair, called the meeting to order on Jan 26, 2022, at 9:00
- a.m., and HCAI Executive Director, Ken Yu called roll.
- 4

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

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

8

HBSB- Board Procedures Committee -1/26/2022

Page 2 of 5

- 1 Mr. Yu read the public announcement regarding COVID-19, meeting rules and
- 2 procedures.
- 3
- **3.** Board Chair nominations process and committee appointments
  - Discuss this year's Nominations Committee appointments and recommendation process
- 7

5 6

#### 8 Presenter: Michael Foulkes, Committee Chair

9 Being an election year, Mr. Foulkes explained the nomination process, whereby the

- 10 chair designates a two-person committee. Those two members make a
- recommendation, and then the names go through a board vote. Mr. Foulkes expressed
- 12 that in choosing a chair and vice-chair, the Board tends to pick people who have been
- on the Board for a while who are interested in serving in those positions.

14

15 Mr. Foulkes stated that in the first meeting of the year, Ms. Belair announce her

16 committee formally. In the second meeting of the year, the nominations committee

17 makes their report, and the floor is opened for nominations and the board votes. The

chair and vice-chair are appointed for the coming year. The third meeting of the year,

19 which is in December, there is a leadership transition, and the chosen leaders start their

- 20 terms in January. Mr. Yu agreed with the conclusions made by Mr. Foulkes. He added
- that the April Full Board meeting would have the nomination committee,
- recommendation. Voting is to be done at the August Full Board meeting. The leadership
- 23 transition will happen at the December Full Board meeting.
- 24

#### 25 **Discussion and Input**

26 Mr. Foulkes wanted clarification on whether the two-year requirement was for the

nominating committee or chair and vice-chair. Mr. Yu stated that to serve as chair and

vice-chair, you have to have two years serving term, but for the nomination committee,

29 anyone can serve.

30

31 Mr. Foulkes mentioned that he noticed in the Policies and Procedures, the election

32 process, Section A, states, "The nominating committee shall be two voting members

appointed by the existing chair at least 30 days prior to the elections." He suggested

<sup>34</sup> language change to just two members instead of two voting members. Mr. Yu and Ms.

35 Belair agreed to that change.

36

1 Mr. Foulkes asked Ms. Belair whether she had any questions, thoughts, or feedback on

2 the nomination committee. Ms. Belair shared her thoughts on the nomination committee

and stated that it would be good for the nominated members to be someone who has

4 gone through the process already. She also wanted suggestions or recommendations

5 on the best candidates eligible for the committee.

6

Mr. Tannahill wanted clarification from Ms. Belair whether she was talking about who
 would be on the nomination committee or chair and vice-chair. Ms. Belair said she was

- 9 referring to the nomination committee.
- 10

11 Mr. Scheuerman asked for consideration that since the director-appointed ex-officio

members don't have a vote on the board, they be the ones that form the nomination

committee because they don't have a formal interest in the outcome. Mr. Foulkes

agreed that it was a good suggestion since the ex-officios have been on the Board for a

long time. Ms. Belair also supported the suggestion.

16

17 Mr. Kreuser asked if Mr. Foulkes suggested that two non-voting members make

recommendations for the nomination committee and not have any board member in that

19 process. To answer that, Mr. Foulkes restated that by having the non-voting members

do the process, there is the elimination of any potential conflict of interest.

21

Mr. Rainey needed clarification on whether the two-year term is based upon the start of the term. Mr. Foulkes said, yes, it is. Ms. Belair needed to know if the two-year term had a specific time, whether it was at the time of the nomination or at the time of selection of nominating committee members. Mr. Foulkes stated that the two-year term is two years before serving as chair in a chair position.

27

Mr. Scheuerman raised concerns on the 2021 committees approved in December,
which intended this Board Procedures Committee meeting to establish the nomination
committee. So he wanted to know if the goal of the meeting was to establish the
committee or not. Ms. Belair informed him that intend of this meeting was to discuss and
welcome any suggestions so that the chair could make the selection.

33

34 Given all the feedback, the chair, Mr. Foulkes, suggested to Ms. Belair that Mr. Kreuser

and Mr. Hooper could be the ideal candidates for the nomination committee since

they've both been on the committee twice. Mr. Kreuser thanked Mr. Foulkes for the

37 recommendation.

HBSB- Board Procedures Committee -1/26/2022

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#### 1 Informational and Action item

- Change Section A's language in the election process to state that the nominating
   committee shall be two members appointed by the existing chair at least 30days
   prior to the elections.
- Consideration of director-appointed ex-officios to form the nominations
   committee since they don't have a formal interest in the outcome of the
   committee.
- 8

#### 9 4. Review of Board Policies and Procedures

- Discuss any proposed changes to Board Policies and Procedures related to the
   chair and vice-chair nominations.
- 12

#### 13 Presenter: Michael Foulkes, Committee Chair

14 Regarding changes in the Policies and Procedures document, Mr. Foulkes talked about

removing "voting member" in paragraph IV, item A, 1a. In paragraph IV, item A, 1b,6,

16 which reads, "Nominating committee recommends candidate(s) or may give no

17 recommendation at the last Board meeting of the calendar year." Last Board meeting to

18 be changed to read "at the second Board meeting."

19

#### 20 Discussion and Input

21 Mr. Yu recommended that paragraph IV, Section A,1b,6, read, "second regular Board

22 meeting of the calendar year." Mr. Foulkes acknowledged that change. Ms. Belair

commended the change stating that her appointment was through that cycle. She

added that the process is even more valid if it's a new chair and vice-chair. The process

gives the new chair the ability to present goals for the next year.

26

#### 27 MOTION: [Belair/Rainey]

- 28 The committee voted to approve changes as discussed.
- 29

#### 30 Informational and Action item

- Language change in paragraph IV, item A, 1a, removing "voting member" to read
   "member."
- Correction in paragraph IV, item A, 1b,6, "last Board meeting" to read, "second regular Board meeting."

35

#### 5. Discussion on future items for the committee to consider 1 Committee members may propose issues to be placed on a future agenda 2 3 Presenter: Michael Foulkes, Committee Chair 4 **Discussion and Input** 5 Since there was no comment, Mr. Foulkes thanked the Committee for a good job. 6 7 8 Informational and Action item 9 • None. 10 6. Comments from the public/committee members on issues not on this agenda 11 **Presenter: Michael Foulkes, Committee Chair** 12 13 **Discussion and Input** Mr. Yu announced the retirement of Ms. Jolls. Mr. Foulkes thanked Ms. Jolls for her 14 work and dedication to the HCAI. Mr. Yu also thanked Ms. Jolls for her work and 15 support to HCAI. Ms. Belair echoed the sentiment and wished her a happy retirement. 16 Ms. Jolls thanked the Committee for their support and kind comments. She appreciated 17 working with the Board. 18 19 Informational and Action item 20 • None. 21 22 23 7. Adjournment

24 Mr. Foulkes adjourned the meeting on Jan 26, 2022, at approximately 9:54 a.m.

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# Instrumentation Committee

Draft Meeting Report/Minutes

January 27, 2022

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#### Gavin Newsom, Governor



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



#### HOSPITAL BUILDING SAFETY BOARD Instrumentation Committee

Thursday, January 27, 2022 9:00 a.m. – 3:00 p.m.

Teleconference Meeting Access: HBSB GoToMeeting Instrumentation Committee Access Code: 191-634-925

#### Committee Members

Marshall Lew, Chair Bruce Clark, Vice-Chair Farzad Naeim Tim McCrink

#### **Consulting Member**

Hamid Haddadi Moh Huang Tony Shakal

#### HCAI Staff

Richard Tannahill Hussain Bhatia Erol Kalkan Roy Lobo Carl Scheuerman Ali Sumer Jean-Paul Buchanan

#### HBSB Staff

Ken Yu, Executive Director Joanne Jolls Evett Torres

#### 1 1. Call to Order and Welcome

- 2 Marshall Lew, Committee Chair, called the meeting to order on Jan 27, 2022, at 9:00
- a.m., and HCAI Executive Director, Ken Yu called roll.

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

- 2 Five members of the Committee present constitute a quorum. There being seven
- 3 present at the time of roll, a quorum was established.
- 4

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

# 7 3. Discussion on the draft White Paper outline, "The benefits of strong motion 8 instrumentation in hospital facilities."

#### 9 Presenter: Bruce Clark, Committee Chair

- 10 Mr. Clark informed the committee that the purpose of preparing the white paper is to
- identify issues associated with the strong motion instrument program and data related to

12 HCAI's responsibility to make hospitals safer.

- 13
- 14 Mr. Clark identified points to be included in the white paper draft:
- Current status of HCAI instrumentation Mr. Clark stated that the idea was to
   know how the instrumentation program is doing since upgrading and updating
   communication systems to provide data to HCAI.
- Utility of hospital instrumentation- He discussed the utility of hospital
   instrumentation from the standpoint of hospital safety and suggested that the
   draft section should be done by experts working on structural and non-structural
   hazards.
- Improving the usefulness of the current strong-motion data and network –
   Mr. Clark commented that in this section, the draft should focus on specific things
   that should be done to make instrumentation more valuable. With the current
   strong motion data, there's a need to discuss whether there are issues like
   geographical areas where data is not very concentrated or accessible when the
   power goes down.
- The role that alternative instrumentation and data analytics can play in the future 28 - Mr. Clark gave an in-depth discussion about alternative instrumentation. He 29 talked about using MEMs and Community Seismic Networks in predicting ground 30 and building responses. He also talked about advancements in SHAKEALERT 31 32 for emergency response in hospitals and upgrading SHAKEMAPS to define the risk of hospital buildings. Mr. Clark explained the use of laser interferometry and 33 34 LIDAR imagery to supplement accelerometer data to see millimeter level displacement during an earthquake. This is to improve on damage evaluation. 35
- Improving community awareness of the value of strong motion instrumentation Mr. Clark noted that there is a marketing issue of how strong motion is handled to
   make sure that everybody understands it. He suggested that the white paper

1 should provide information not only to the technical team but to everybody in the

- 2 community as to why strong-motion instrumentation is important.
- 3

#### 4 Discussion and Input

5 Mr. Tannahill indicated that although HCAI can provide assistance writing the draft, he 6 suggested the sub-committee put the white paper draft together. Mr. Naeim expressed 7 that he liked the idea of a sub-committee, but that needing to have a meeting each time 8 committee members want to discuss the draft would make the process long. He 9 proposed that the committee select two or three members who will draft the white 10 paper, then present the draft for public and committee review. Mr. Clark and Mr. Yu

11 agreed to that proposal.

12

13 Concerning the topics Mr. Clark was discussing, Mr. Haddadi requested a bullet point

be included stating, "What is the output that HCAI would like to get from seismic

instrumentation." Mr. Clark accepted the idea. Mr. Naeim reminded the committee

16 before they discuss what HCAI needs from instrumentation, the committee has to lay

17 out what type of information is needed by the instrumentation.

18

19 In connection with the second bullet point, the utility of hospital instrumentation, Mr. Lew

added that the committee needs to emphasize the benefits to hospital owners/

21 operators. Hospital owners/operators will use strong-motion instrumentation to benefit

them in their operations.

23

Mr. Yu read a comment from an interested party, stating that one benefit of the topic would be in full modular hospital construction where special moment frame construction is ideal. Instrumentation could also monitor the unit through transportation to show that they are not damaged to completion. Mr. Clark agreed with that point and added that since hospital construction methods are changing, the instrumentation is important in creating modular hospitals quickly and cheaply.

30

After the discussion, Mr. Lew concluded that the committee has a good outline to start the draft white paper. He asked HCAI staff to provide reports on what buildings are instrumented and where the buildings are located, types of instrumentation, and building types of construction. These reports will enable modification of instruments to use to focus on structural damage and understand those effects better.

36

- 1 Mr. Lew asked Mr. Reis to give a brief overview of the type of instrumentation that he's
- 2 been working with. In response, Mr. Reis talked about Safehub, who has developed
- 3 small accelerometer sensors used for post-earthquake response and recovery. The
- 4 sensors are installed in buildings and then hooked up to a web-based platform to
- 5 provide the building owners/users an immediate estimate of damage to the building.
- 6 The sensors can be installed in offices, schools, hospitals, manufacturing, retail,
- 7 biotech, and hi-tech companies. Mr. Reis expressed that Safehub company will be more
- 8 than happy to contribute to the white paper.

9 Mr. Shakal asked if the data from the sensors would be private. Mr. Reis said the

10 information is not meant to contribute to a public database but instead for clients to have

11 rapid information after an earthquake to decide whether the building is safe to occupy or

- 12 where it needs to be inspected.
- 13

14 Mr. Lew asked whether the white paper is limited to just HCAI instrumentation or open to discuss the general usefulness of the data. Mr. Reis gave an example of office 15 buildings in Los Angeles where owners are required by city ordinance to pay to have 16 17 their building instrumented with SMIP sensors but are not allowed access to the data collected. Owners then add additional instrument to their buildings so they can use the 18 19 data specifically for their own post-earthquake response. Mr. Lew also questioned if there were hospitals that are instrumented. Mr. Reis replied that there are clinic-type 20 buildings that are instrumented but no HCAI hospitals. Mr. Haddadi asked if HCAI would 21 like to be able to access data after an earthquake to know which hospitals HCAI needs 22 to concentrate its effort on and which ones they can delay the response to. Mr. 23 Tannahill confirmed that that HCAI would be interested in accessing that kind of 24

25 information.

26

Mr. Lew concluded that the committee now has an outline of the draft white paper with 27 six sections. Mr. Yu recommended that since there are eight committee members, there 28 29 should be four sub-committees. Mr. Naeim suggested that he and Mr. Huang be on the sub-committee on Section 3, Utility of Hospital Instrumentation. Mr. Lew and Mr. Shakal 30 are to work on Section 4, Improving the Usefulness of our Current Strong Motion Data 31 and Network. Mr. Malley and Mr. Haddadi were appointed to be on the Section 5 sub-32 committee. The Role that Alternative Instrumentation and/or Data Analytics Can Play in 33 34 the Future. Mr. Clark and Mr. McCrink will work on Section 6, Improving Community Awareness of the Value of Strong-Motion Instrumentation. Mr. Lobo was appointed as 35 the link between the sub-committees and HCAI staff. 36

37

- 38 Mr. McCrink updated members on the upcoming meeting scheduled on April 2, 2022,
- and October 22, 2022. Mr. Naeim advised that all sub-committees complete their part of

1 the draft before March 26, 2022, to be presented at the April 28, 2022 Full Board

2 meeting.

3

- 4 Mr. Lew asked if any members of the public were interested in being part of the
- 5 discussions with the sub-committees. Mr. Reis volunteered to help on the types of
- 6 instrumentation and community value. Mr. Marshall advised all the sub-committee
- 7 members to contact Dr. Carlos Ventura of the University of British Columbia because
- 8 the university has done a lot of instrumentation of public facilities, so his expertise could
- 9 be helpful.

10

### 11 MOTION: [Naeim/McCrink]

- 12 The committee voted to accept the draft outline and accept the committee's
- assignments as made. Section 2, to be worked on by HCAI Staff with the help of Mr. Naeim;
- 14 Section 3, Mr. Naeim and Mr. Huang; Section 4, Mr. Lew and Mr. Shakal; Section 5, Mr. Malley and Mr. Haddadi: and Section 6, Mr. Clark and Mr. McCrink
- and Mr. Haddadi; and Section 6, Mr. Clark and Mr. McCrink.

16

### 17 Informational and Action item

Add "What is the output that HCAI would like to get from seismic instrumentation," to
 the white paper draft.

20

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

22 Presenter: Marshall Lew, Committee Chair

23

24 Discussion and Input

25

26 Mr. Yu announced Joanne Jolls' retirement. Her last physical date will be on April 1,

- 27 2022. Mr. Yu commended her for her support and being a great asset to the Board. Mr.
- Lew also appreciated Ms. Jolls for her work. Ms. Jolls thanked everybody for their
- support. She expressed that it was a privilege working for the Board.
- 30
- 31 Having concluded the meeting, Mr. Lew expressed that it was productive and thanked
- 32 everyone for their participation.

33

#### 34 Informational and Action item

35 • None.

1

# 2 5. Adjournment

3 Mr. Lew adjourned the meeting on January 27, 2022, at approximately 10:46 a.m.

# Codes and Processes Committee

Draft Meeting Report/Minutes

February 10, 2022

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#### Gavin Newsom, Governor

# HCAi Department of Health Care Access and Information

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



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

Thursday, February 10, 2022 9:00 a.m. – 3:00 p.m.

#### **Teleconference Meeting Access:**

HBSB Teams CAP Committee Access Code: 118-580-777-7

#### Committee Members

Roy Lopez, Vice-Chair Mike Hooper Scott Jackson Pete Kreuser Scott Mackey Jim Malley Farzad Naeim

#### **Consulting Members**

John Donelan Gary Dunger

#### **Ex-Officio Members**

Mia Marvelli

#### HCAI Staff

Chris Tokas, FDD Deputy Director Richard Tannahill Brett Beekman Larry Enright Bill Gow Roy Lobo Diana Navarro Ryan Nelson Diana Scaturro Carl Scheuerman Nanci Timmins James Yi

#### HBSB Staff

Ken Yu, Executive Director Joanne Jolls Evett Torres

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

- 2 Roy Lopez, Vice-Chair, called the meeting to order on February 10, 2022, at 9:00 a.m.,
- and HCAI Executive Director, Ken Yu called roll.

1	
2	2. Roll Call and Meeting Advisories/Expectations
3 4 5	Seven members of the Committee present constitute a quorum. There being nine present, a quorum was established.
6 7 8	Mr. Yu read the public announcement regarding COVID-19, meeting rules and procedures.
9 10	3. California Building and Standard code revision cycle for 2022 and intervening code cycle
11 12	Presenter: Richard Tannahill, HCAI
13 14 15 16 17	Mr. Tannahill, Bill Gow, and Larry Enright gave a detailed presentation on parts of the 2022 intervening code adoption cycle. Mr. Tannahill appreciated the California Building Standard Commission for working with HCAI. He also informed the committee that the OSHPD name will remain in the code until the next cycle, in 2025.
18	Part 1 California Administrative code
<ol> <li>19</li> <li>20</li> <li>21</li> <li>22</li> <li>23</li> <li>24</li> <li>25</li> <li>26</li> </ol>	<ul> <li>Emergency submittal time limitation</li> <li>Clarify licensure for civil engineers and fire protection engineers-</li> <li>Require all submittals to be electronic</li> <li>Keep annual building permits</li> <li>Non-refundable fee added for geotechnical submissions</li> <li>Clarify the scope of architects with secondary structural design</li> </ul>
27 28	Part 2 California Building Code
29 30 31 32 33 34 35 36 37 38	<ul> <li>Further coordination with new FGI Guidelines</li> <li>Continuous observation of pediatric patient rooms and play area by staff</li> <li>Clarify resuscitation requirements for LDR/LDRPs</li> <li>Outside exposure for psychiatric hospitals</li> <li>Handwashing station clarifications</li> <li>Remove all references to licensing</li> <li>Definition of Interim Equipment</li> <li>Relook at Fast Track requirements</li> <li>Glazing requirements in psychiatric facilities</li> <li>Work with CBC on on Title 22 requirement that emergency departments have a</li> </ul>
39	medical room

• Definition and requirements of Behavioral Health Observation Units
1	•	NICU gowning requirements back into code
2	•	OSHPD 2A and 2B to just OSHPD 2
3	•	Relook at pharmacy space requirements
4	•	Revise language for Procedure Rooms and Class 2 Imaging for procedures
5		allowed
6	•	Adding med gas outlet requirements for Procedure Rooms and Class 2
7	•	Look at the location of the common patient toilet in a nursing unit (multipurpose
8		room and/or central bathing)
9	•	Add sterile core to Table 1224.4.11
10	•	Medical service for psychiatric hospitals
11	•	Define Tamper Resistant
12		
13	Part 3	3 California Electrical Code
14		
15	•	HCAI does not require SNF to have normal and equipment receptacles at patient
16		bed locations based on a model code exception in CEC 517.18. However, the
17		model code exception is confusing based on other HCAI amendments in Article
18		517. New HCAI exception will be added to 517.18 to clarify that SNF patient
19		beds are not required to meet the 517.18 receptacle requirements.
20		Existing HCAI amendment CEC 517.44(A)(7) requires SNF to have an
20 21	•	equipment branch receptacle located in a corridor so a 50 feet extension cord
21		can reach patient beds. HCAI will modify this requirement to not require this
		corridor receptacle if the patient rooms have receptacles powered by the
23		equipment branch.
24		
25	•	Add exception to 517.44(A) for acute psychiatric hospitals to not require an
26		equipment branch receptacle in patient rooms. The new exception will be
27		modeled after Exception 4 in 517.18(B).
28	•	Add "paralleling switchgear, EPSS distribution equipment, and transfer switches"
29		to OSHPD Amendment in 700.3(A) requiring generators to be tested per NFPA
30		110. This aligns with the requirements in CBC 2702.1.3.
31		Add electrical coordination requirements to Type 2 essential electrical systems to
32	•	align with NFPA 99.
32 33		
33 34	Dart /	California Mechanical Code
35	i ait -	
36	•	Revise CMC 3201.1 and 408.1.5 to coordinate with adiabatic humidification in
30 37	•	2013 ASHRAE 170, (addendum m) section 6.6.3.
38	•	Coordination of CMC Table 4A temperature requirements for OSHPD rooms not
39		in ASHRAE 170 Table 7.1. Previous requirement in 2016 CMC 320.1.

<ul> <li>Revise pressurization and air change rate coordinate with USP 800 requirements.</li> </ul>	e for HD ante room in CMC Table 4A to
Generator exhaust distances to openings	and forced air intakes.
Part 5 California Plumbing Code	
<ul> <li>Enhance language for emergency waste.</li> <li>Bolster/clarify patient shower ADA and distribution.</li> <li>Consider removing sensor faucets in SNI "Management of Legionella in Water Systematical Systema</li></ul>	rain recurring issue. Fs and P.E. environments. tems", Consensus Study Report, P. 189
Part 10	
•	
Discussion and Input	
Mia Marvelli asked if there will be more modific 2. Mr. Lobo stated that there would not be any c	, , , ,
An interested party asked which version NFPA is it was cited from the 2018 NFPA 99.	99 is cited from. Mr. Gow confirmed that
<ul><li>Informational and Action item</li><li>None</li></ul>	
4. Emergency design task force	
<b>Presenter:</b> Chris Tokas and Richard Tannahill, Mr. Tannahill gave a quick update on the emerg formatting process on chapters that require mor	ency design task force. He stated a
<ul> <li>Air Handling Unit (AHU) Recommendation</li> <li>HEPA Filtration Recommendation</li> <li>Return Air and Exhaust Air Recommendation</li> </ul>	endations s imendations
	<ul> <li>coordinate with USP 800 requirements.</li> <li>Generator exhaust distances to openings</li> <li>Part 5 California Plumbing Code <ul> <li>Enhance language for emergency water.</li> <li>Enhance language for emergency water.</li> <li>Bolster/clarify patient shower ADA and die Consider removing sensor faucets in SNI "Management of Legionella in Water Sys</li> <li>Dead legs – maximum length allowed if a</li> </ul> </li> <li>Part 10 <ul> <li>Mr. Tannahill pointed out a need for coor Section 301.5, Sections 502.6, and 503.1</li> </ul> </li> <li>Discussion and Input</li> </ul> <li>Mia Marvelli asked if there will be more modifical. Mr. Lobo stated that there would not be any of the was cited from the 2018 NFPA 99.</li> Informational and Action item <ul> <li>None</li> </ul> <li>Emergency design task force</li> <li>Presenter: Chris Tokas and Richard Tannahill, Mr. Tannahill gave a quick update on the emerge formatting process on chapters that require more of the Air Handling Unit (AHU) Recommed and HEPA Filtration Recommendations and</li>

1	0	Operating Rooms
2	0	Recommended Facilities Ventilation Design
3	<ul> <li>Chap</li> </ul>	ter 2: Emergency operations planning to accommodate surge capacity
4	0	Air Handling Unit (AHU) Recommendations
5	0	HEPA Filtration Recommendations
6	0	Return Air and Exhaust Air Recommendations
7	0	3.1 Negative Pressure Environment Recommendations
8	0	Operating Rooms
9	0	Recommended Facilities Ventilation Design
10	<ul> <li>Chap</li> </ul>	ter 3: Spaces that can be split into multiple zones
11	0	Air Handling Unit (AHU) Recommendations
12	0	HEPA Filtration Recommendations
13	0	Return Air and Exhaust Air Recommendations
14	0	3.1 Negative Pressure Environment Recommendations
15	0	Operating Rooms
16	0	Recommended Facilities Ventilation Design
17	<ul> <li>Chap</li> </ul>	ter 4: HVAC system considerations for wildfire events
18	0	Air Handling Unit (AHU) Recommendations
19	0	HEPA Filtration Recommendations
20	0	Return Air and Exhaust Air Recommendations
21	0	3.1 Negative Pressure Environment Recommendations
22	0	Operating Rooms
23	0	Recommended Facilities Ventilation Design
24	0	Chapter 5: Getting authorization for an emergency projectCode
25		Requirements
26	0	Steps to Follow for Emergency Projects
27	<ul> <li>Chap</li> </ul>	ter 6: Coordination with other jurisdictions for temporary surge facilities and
28	altern	ate care sites
29	0	Code Requirements
30	0	Steps to Follow for Emergency Projects
31		
32		n, Mr. Tannahill identified facilities used as case studies, Sharp Chula Vista
33		is Medical Center. He also encouraged the committee to suggest other
34	facilities' nar	nes as case studies.
35		
36	Discussion	and Input
37	• None.	
38		
39		al and Action item
40	• None.	
41		

### 1 5. HCAI Preapproved details (OPD)

2	Presenter: Roy Lopez, Vice Chair
3 4 5 6 7 8 9 10	Mr. Lopez established a spreadsheet to help track OPD that had been submitted. The spreadsheet contains status and review processes. He acknowledged that Mr. O'Connor had highlighted wall assembly intersection as a priority. Mr. Lopez noted that on the presentation, Mr. O'Connor highlighted that partition detail updates had been transferred to HBSB Structural and Nonstructural Committee and that the spreadsheet was to be used as a guide for tracking the proposed details.
11	Discussion and input
12	•
13 14 15 16 17 18 19	Mr. Dunger observed that the fire life safety details have been removed from the website and are no longer available for clients to access even though they are still valid. Mr. Tokas acknowledged that fact and added that there is a mandate that everything on the website has to be accessible. He concluded that they are working on making them available to the public. Mr. Dunger noted that he did not know about that and thanked Mr. Tokas for the information.
20	Information and Action item
21 22	None.
23	6. Comments from the public/committee members on issues not on this agenda
24 25	Presenter: Roy Lopez, Vice Chair
26 27	Discussion and input
28 29 30 31 32 33 34 35	Ms. Marvelli announced that Mike Nearman has retired from the California Building Standard Commission. She acknowledged the hard work done by Mr. Nearman for the commission. She declared that she would be the one attending all the meetings. Ms. Marvelli appreciated how organized the meetings were. She also thanked the committee for the collaboration and cooperation. Mr. Lopez thanked Ms. Marvelli for the output. Mr. Tokkas appreciated and acknowledged Mr. Nearman for his dedication and hard work.
36 37 38 39 40 41	Mr. Yu shared two comments with the committee. First, congratulated Mr. Lopez on becoming a grandfather. The second announcement was on the retirement of Joanne Jolls. Mr. Yu disclosed that her last date would be April 1, 2022. Mr. Lopez thanked Mr. Yu for the announcements and wished Ms. Jolls all the best in her retirement. On that note, Mr. Jackson also congratulated Ms. Jolls for her hard work. Ms. Jolls thanked the committee and stated that she enjoyed working with them.

- 1 Mr. Lopez expressed that the proposed dates for future Codes and Processes
- 2 Committee meetings are to be held on May 12, 2022, July 14, 2022, and October 13,
- 3 2022.
- 4

### 5 7. Adjournment

6 Mr. Lopez adjourned the meeting on February 10, 2022, at approximately 9:58 a.m.

# Education and Outreach Committee

Draft Meeting Report/Minutes

February 23, 2022

#### Gavin Newsom, Governor

# HCAI Department of Health Care Access and Information

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



### HOSPITAL BUILDING SAFETY BOARD Education and Outreach Committee

Wednesday, February 23, 2022 9:00 a.m. – 3:00 p.m.

### **Teleconference Meeting Access:**

HBSB Teams EO Committee Access Code: 509-393-906

### **Committee Members**

Mike Hooper, Committee Chair Pete Kreuser, Vice-Chair Louise Belair Deepak Dandekar Bert Hurlbut Scott Mackey Bruce Rainey

### **Consulting Members**

John Donelan Gary Dunger Bill Zellmer

### HCAI Staff

Chris Tokas, FDD Deputy Director Richard Tannahill Monica Colosi Jonathan Cook Chris Davis Mickey Fong Bill Gow Joe LaBrie Cesar Ponce Nanci Timmins James Yi

### **HBSB Staff**

Ken Yu, Executive Director Joanne Jolls Evett Torres

### 1 1. Welcome and introductions

- 2 Mike Hooper, Committee Chair, called the meeting to order on February 23, 2022, at
- 3 9:00 a.m., and HCAI Executive Director, Ken Yu called roll.
- 4

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

- 2 Six members of the Committee present constitutes a quorum. There being ten present
- 3 at the time of roll, a quorum was established.
- 4
- 5 Mr. Yu read the public announcement regarding COVID-19, meeting rules and
- 6 procedures.
- 7

### 8 **3. Future educational opportunities**

- 9 Presenter: Mike Hooper, Committee Chair
- 10 Mr. Hooper declared that the committee's objective is to decide which topics should be
- 11 presented this year and develop a calendar for each educational webinar or seminar.
- 12

### 13 Discussion and Input

- 14 The webinar topics discussed in previous meetings are;
- 15 16

### Off-site fabrication/ pre-assembled components

- Mr. Kreuser, discussed how flourishing pre-fabrication has become in the
  industry. He proposed that the topic be discussed this year. Mr. LaBrie agreed
  with Mr. Kreuser's suggestion. Mr. Hooper asked Mr. LaBrie if he would prefer
  this topic be discussed as a webinar or one-on-one meeting. Mr. LaBrie opted for
  one-on-one meetings.
- 22
- 23 Mr. Mackey suggested that HCAI present the pre-fabrication process and the 24 current status of pre-approvals.
- 25

Mr. Hurlbut asked if there had been any pilot programs or large components done with HCAI, and if not, should that be a consideration. Mr. Tokas answered that the pre-fabrication pilot program started in 2009/2010. He also added that once the PIN is approved, the webinars/seminars will be available to the public.

- Mr. Mackey asked whether there was something that could be done in the interim to present a way forward. Mr. Tokas responded that the program would be presented to the community once the PIN was signed. Mr. Tannahill suggested to connect with applicants or people interested in out-of-state pre-production projects.
- 36

- Ms. Belair asked Mr. Tokas if the PIN would be ready for the next Codes and
  Processes Committee meeting and should it be advertised for public
  participation. Mr. Tokas replied that it is a bit early to advertise the PIN, but it will
- 40 be available on the agenda as soon as it is ready. Ms. Belair asked if there was a
- 41 process to solicit applicants. Mr. Tokas communicated that there are

1 2 3 4 5	presentations available for applicants in the full board meetings, committee meetings, and the various industries. Mr. Hooper explained that this topic is dependent upon the development of the PIN, which should be ready near the last quarter of the year.
6 7 8 9	Mr. Tannahill suggested that the dates for the California Administration Code webinar be pushed back to summer. Mr. Hooper asked if the California Admiration Code webinar should still be kept in the docket for 2022. Mr. Kreuser
10 11 12	remarked that it should because the webinar is important, and the committee has already proposed it for 2022.
13 • 14 15	Policy Intent Notice, PIN 50 (Possible dates: April/ May 2022) Mr. Tannahill announced that the PIN was already on the schedule.
16 • 17 18	<b>Emergency Process Design Guide (Possible dates: June/July 2022)</b> Mr. Tannahill suggested that the dates remain the same.
19 20 21 22 23 24 25 26 27 28	<ul> <li>Projects</li> <li>Mr. Gow commented that it would be clearer if there was an in-depth explanation of "emergency project." Mr. Hooper asked Mr. Tokas if there is a guide for what an emergency project is. Mr. Tokas confirmed that there is a guide for emergency code. Mr. Tannahill also added that there is a chapter in the Emergency Design Guide, addressing this issue.</li> <li>Mr. Hooper asked if the Emergency Design Guide was fully developed or under development and what is the process for publishing. Mr. Tannahill replied that the</li> </ul>
29 30 31	guide is in draft form and will be posted on the HCAI website. Mr. Tannahill stated the time frame for that webinar is June/July 2022.
32 • 33 34 35 36 37 38	<b>OSHPD 3 and HCAI special seismic certification presentation.</b> Mr. Tokas wanted to know if the special seismic certification is specific to OSHPD 3 or is it in general. Mr. Hooper explained that it was special seismic certification in general. Mr. Tannahill added that the OSHPD special seismic presentation was already done in August last year. Mr. Tokas suggested that this webinar be done in early summer.
39 • 40 41 42	<ul> <li>Testing, inspection, and observation program (inspection services unit topic)</li> <li>Mr. LaBrie announced that there is a draft version of the latest TIO used in Excel.</li> <li>This version integrates project sequencing and construction phasing. He</li> </ul>

HBSB- Education and Outreach Committee -2/23/2022

- suggested that this topic might be a nice presentation offered to the industry
  through meetings and public presentations. Mr. Hooper asked if the project could
  be rolled out by the end of the year. Mr. LaBrie stated that the project needs to
  be on the agenda and will be rolled out this year.
- 6 Mr. Hooper asked if Mr. LaBrie would have something to present about this topic 7 in the next meeting, which is May 25, 2022. Mr. LaBrie assured him that there 8 would be a presentation at the next meeting. The project's motivation is that the 9 industry is served by a TIO that considers quality assurance direction. Mr. 10 Hooper questioned if this topic requires a special committee to review the 11 development of this topic.
- 12

5

Mr. Yu indicated that there could be an assigned sub-committee to review the
topic. Mr. Hooper stated that he would like to assign the sub-committee sooner
than May 2022. Concerning the sub-committee meetings, Mr. Mackey suggested
that the sub-committee members come up with dates for their meetings. Mr.
Hooper affirmed that he would work with HBSB staff and develop dates for those
who want to participate.

- 19
- 20 Mr. Rainey talked about the presentation on NPC 5 requirements, and this 21 presentation can be used for training purposes.
- 22 23

### PINs and CANs (Fire prevention unit topic)

Ms. Timmins discussed the presentations that she has done, with different
groups, on these topics. She wanted to bring some of those presentations to the
Education and Outreach committee or create a priority list.

27

Mr. Tannahill announced that there is an ongoing process on petitioning the firerated assembly topic in April/May 2022 time period. Ms. Timmins added that there was a presentation on OSHPD 3 with information on FLS topics. Mr. Mackey asked Ms. Timmins if last year's OSHPD 3 topic covered enough on fire prevention issues. Ms. Timmins said that the fire prevention issues topic was minimal and should be combined with FLS. Mr. Tannahill declared that the topic

- 34 did not talk about fire prevention, and hence it needs to be discussed.
- 35

### 36 MOTION: [Mackey/Rainey]

37 The committee voted unanimously to accept the webinar topics, with amended

- language, and to move forward with presentations. Mr. Yu took a roll call vote.
- 39

### 40 Informational and Action item

- Mr. Hooper assigned a sub-committee to review the webinar topic on TIO. Members
- 42 included Mr. Hooper and Mr. Dunger.

### 1 4. Planning for a 2023 seminar

### 2 **Presenter: Mike Hooper, Chair**

3 Mr. Hooper stated that there has been consideration on developing one grandiose topic

- 4 into a seminar.
- 5

### 6 Discussion and Input

- 7 Ms. Timmins suggested that an updated presentation would be a great opportunity to
- 8 refresh what was done in the 1990s, to get clients to understand the need to submit an
- 9 HCAI project successfully.
- 10
- 11 Mr. Hooper asked the committee if the seminar could be taken up at the beginning of
- 12 2023. Ms. Belair mentioned that the idea was to start this in 2022 so that there could be
- a seminar in 2023. Mr. Tokas noted that seminars and webinars need a lot of time to
- prepare hence the need for early preparation. Mr. Gow also agreed with Ms. Timmins's
- 15 suggestion on "Tips from the Experts". Ms. Belair talked about developing a regular
- 16 calendar and curriculum so that the topics can be prepared before the meeting. Mr.
- 17 Mackey proposed two events for Tips from the Experts seminar.
- 18
- 19 Mr. LaBrie requested the chair to consider code changes that will reprioritize some
- suggestions that will be needed in 2023. Mr. Tannahill disclosed that there will be a
- 21 webinar to discuss the code changes before the end of the year. The code changes are
- being published in July and will be in effect January 2023.
- 23

### 24 Informational and Action item

- 25 None.
- 26

### 27 5. Define/develop public and industry outreach process

- 28 **Presenter:** Mike Hooper, Committee Chair
- Licensing boards
- 30 Subscription services
- Promote HCAI data sharing
- Survey the public and industry members again on topics of interest.
- 33

### 34 **Discussion and input**

- 35
- Mr. Tokas stated that the Hospital Building Safety Board has a channel of
- communication for members and the public interested in the topics. There are various
- channels to receive information then compile it in one place. Ms. Belair highlighted that
- 39 the intent of this topic was geared to hospital administrators who may not be aware of
- 40 what HCAI is doing and provide outreach to the community as well.

1	Ms. Belair asked who was in charge of disseminating information at HCAI. Mr. Tokas
2	answered that there is a public affairs officer and a listserver responsible for
3	disseminating communication. He advised that the information be put on a website for
4	parties who are not subscribed to the listserver. Ms. Belair suggested that information
5	be shared on social media portals like LinkedIn. Mr. Tokas added that the public affairs
6	office also sends information via Twitter.
7	
8	Information and Action item
9	None.
10	
11	6. Comments from the public/committee members on issues not on this agenda
12	Presenter: Mike Hooper, Committee Chair
13	Discussion and input
14	Mr. Yu announced Joanne Jolls's retirement. Her retirement is dated April 1, 2022. Mr.
15	Yu, Mr. Tokas, and Ms. Belair thanked Ms. Jolls for her work with HBSB. Ms. Jolls
16	thanked the committee and stated that it was a privilege working with them.
17	
18	Tentative schedules for future Education and Outreach Committee meetings are
19	• May 25, 2022
20	• August 17, 2022
21	• October 19, 2022
~~	
22	

### 23 7. Adjournment

Mr. Hooper adjourned the meeting on February 23, 2022, at approximately 10:57 a.m.

# Energy Conservation and Management Committee

Draft Meeting Report/Minutes

March 15, 2022

### Gavin Newsom, Governor

# HCAI Department of Health Care Access and Information

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



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

Tuesday, March 15, 2022 9:00 a.m. – 3:00 p.m.

### **Teleconference Meeting Access:**

HBSB Teams CAP Committee Access Code: 871-188-559

### **Committee Members**

Roy Lopez, Chair Scott Jackson, Vice-Chair Louise Belair David Bliss Deepak Dandekar Michael Foulkes Bruce Rainey

### **Consulting Member**

John Griffiths David Lockhart Eric Johnson

### HCAI Staff

Chris Tokas, FDD Deputy Director Richard Tannahill Chris Dickey Bill Gow Carl Scheuerman Jamie Schnick Nanci Timmins James Yi

### HBSB Staff

Ken Yu, Executive Director Joanne Jolls Evett Torres

### 1 **1. Welcome and Introductions**

- 2 Roy Lopez, Committee Chair, called the meeting to order on March 15, 2022, at 9:00
- a.m., and HCAI Executive Director, Ken Yu called roll.

1	2. Roll Call and Meeting Advisories/Expectations
2 3 4	Seven members of the Committee present constitute a quorum. There being ten present, a quorum was established.
5 6 7	Mr. Yu read the public announcement regarding COVID-19, meeting rules and procedures.
8	3. Update: Microgrid Task Force
9 10	Presenter: Jamie Schnick, HCAI
10 11 12 13 14	Mr. Schnick gave a brief on the agenda topics, a draft guide for microgrids for SNFs, lessons learned from a hospital microgrid project, and upcoming code changes. The members of the microgrid task force are:
15	Richard Tannahill – Acting Deputy Division Chief
16	Nanci Timmins – Fire life safety
17	Jamie Schnick – Electrical Engineer
18	Ali Sumer – Structural Engineer
19	Diana Navarro – Architect
20 21 22	Mr. Schnick explained the mission of the microgrid:
23	<ul> <li>To get the word out that microgrids can now be implemented.</li> </ul>
24 25	<ul> <li>To help with delivering microgrids as Emergency Power Sources for California Healthcare Facilities that are code compliant.</li> </ul>
26	<ul> <li>To help speed up and simplify the process of microgrid projects.</li> </ul>
27 28 29 30	Mr. Schnick highlighted that healthcare microgrids save on operational costs. They are resilient with 100% backup and sustainable with natural gas engines.
31 32 33	On the first topic, a Draft Guide for Microgrid SNFs, Mr. Schnick talked about the five SNFs in design/construction: Broadway Villa Post-acute – Sonoma
34	Cloverdale Healthcare Center – Cloverdale
35	Park View Post Care Acute – Santa Rosa
36	Northbrook Healthcare Center – Willits

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- Ukiah Post Acute Rehabilitation Ukiah
- 2

3 Broadway Villa Post Acute started construction in February and the others have been designed and approved with structural pending. Mr. Schnick stated that each has a 4 5 microgrid that backs up the normal source. So in case of a power shut-off, the microgrid takes over and the facility continues to function as if there was no power outage. He 6 talked about the 30 applicable code matrices listed on the White Paper. Mr. Schnick 7 8 stated that the codes worked successfully for the project. Mr. Schnick disclosed that he 9 plans to develop a document that has all codes listed, a microgrid implementation flow 10 chart, and individual solutions. 11 12 On the second topic, Lessons Learned from the Hospital Microgrid Project, Mr. Schnick pointed out three lessons: 1) construction sequences to show two sources for 13 emergency power, 2) code reference for showing the sizing of the main distribution 14 board, and 3) use of both power purchase agreement and owner purchase point. Mr. 15 Schnick reported a bridge project at Kaiser Ontario, which uses a microgrid as an 16 17 emergency power source. The microgrid will act as alternate normal power and an 18 essential power source in this project. 19 20 On the third topic, Code Update, Mr. Schnick stated that the 2023 NEC should have all 21 the microgrid language. There will be a distinction between normal sources and essential sources. Mr. Schnick highlighted microgrids as Essential Power Sources 22 23 (EPSs). Manufacturers will need to get special seismic certification for Distributed Energy Sources (DES). There is a challenge for on-site fuel storage requirements. Mr. 24 Schnick said that memorandums should be developed and forwarded to the Centers for 25

- 26 Medicare & Medicaid Services (CMS) to allow for other EPS sources as the code
- 27 evolves.
- 28

### 29 Discussion and Input

30

Mr. Yu read questions from the chat box; the first was how energy shifting is accomplished with microgenerators. Mr. Schnick answered that the potential for utility bills is accomplished with a microgrid controller that utilizes another source to offset the utility usage, which allows the customer to avoid peak energy costs. An interested party weighed in, stating that a hospital or healthcare entity can be supplied by any number of generators and storage assets. Different sources have different operating characteristics, so microgrids allow load shifting. Mr. Schnick added that SNFs back up

- the entire facility by using microturbines parallel with normal systems to solve resiliency
- and cost savings. He assured that these are not replacing, but paralleling, emergency
- 40 generator systems, so in case of a power outage, facilities continue operating normally.
- 41 This is sustainable and saves money.

42

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Mr. Griffiths thanked Mr. Schnick for the presentation and pointed out that he had 1 2 dropped a link to the White Paper in the chat box. He asked if code updates regarding CMS accepting microgrid systems, have a timeline. Mr. Schnick answered that the 3 estimation for new code is in 2023, which will be implemented in 2025. From there, 4 HCAI can approach CMS with the new national code so that it can be incorporated in 5 the form of a memorandum. An interested party added that CMS would be able to 6 7 recognize the latest NFPA standards in the next year. Mr. Griffiths asked where that 8 information could be found. The interested party stated that the information could be 9 found on the National Academy of Medicine website. 10 11 Ms. Belair commended the presentation and asked Mr. Schnick for details on the Ontario project regarding AMC requirements. Mr. Schnick explained that as per the 12 13 current code, anything that provides power to the emergency system is considered an EPS, which must meet the special code requirements like special seismic certification 14 15 and listed transfer switch. So those two requirements were waived with the understanding that it is supplemental and that the site had full generators that would 16 17 provide emergency power. Mr. Tannahill added that AMCs would no longer be required with future CMS and code changes. 18 19 Mr. Bliss clarified that a microgrid could be defined as several on-site resources to 20 21 service the located load. So, a microgrid incorporates where the loads are, not the 22 resources. The value of a microgrid is to provide coverage when other sources are not producing, store excess productivity on-site, and be a discretionary resource that can be 23 24 spooled up and backed down again in service of trying to shave off the highest levels of 25 demand from the utility. 26 Mr. Yu read a comment from Mr. Griffiths on the SNF projects, which use nonrenewable 27 28 energy resources, and how HCAI plans to meet the net-zero state goals in an organization using greenhouse gas. Mr. Griffiths also linked some of the definitions of 29 acronyms related to microgrids. 30 31 32 Mr. Schnick stated that HCAI is helping with the permits for the microgrids to be built 33 hence helping with the process, but HCAI is not involved in the financial process. Ms. 34 Belair pointed out that the net-zero cost and greenhouse report can be a topic for future presentations for the committee. She suggested that the committee further explore that 35 36 topic.

37

### 38 Informational and Action item

- 39 None
- 40

4. Presentation: "Microgrids on the move" virtual tour of the Kaiser 1 2 Permanente Richmond Medical Center Microgrid Presenter: John Griffiths, CONTECH-CA, and Ryan Bliss, Charge Bliss 3 4 5 Mr. Griffiths gave a summary on a renewable microgrid, stating that there is input into the building that can come from the utility of DERs, and then they are inputs into the 6 7 microgrid's controller. 8 9 Mr. Bliss talked about the benefits of using microgrids in a facility, including financial

incentives, resiliency, and sustainability. He talked about the federal and state
incentives, energy and demand cost savings and diminishing exposure to volatile fossil
fuel prices in the financial incentives. Mr. Bliss stated that microgrids back up power
during outages. The microgrid controller can separate the system from the grind hence
having the islanding capability and redundancy beyond diesel backup. He also touched
on sustainability, where he talked about renewable microgrids helping in California's

16 decarbonization goals and corporate or non-profit goals.

17

Mr. Bliss stated that the Richmond Microgrid Project was CEC funded. The goals of theproject were:

20

Identifying/overcoming existing barriers to renewable microgrid implementation at
 healthcare facilities.

- Demonstrate the opportunity to reduce hospital energy consumption, peak load,
   fossil fuel, and cost.
- Demonstrate the capability to support continuous facility operation by islanding
   the microgrid during a utility power outage.
- 27

Mr. Griffiths gave an overview of the project, stating that the project had SunPower solar
panels 250kW, Samsung batteries 250 kW, Princeton power invertor, and Charge Bliss
microgrid controller on the project specification. The project took a year to design, one
year to construct, and six months for commissioning and testing. The project has run
24/7 since it was commissioned.

Mr. Griffiths gave an overview of the virtual tour of the Richmond facility. The microgrid battery is located on the lowest level of the parking structure and the solar PV is on the roof. The batteries are Samsung lithium-ion batteries and produce 250kW/1000kW. The batteries are heavy; hence, there was a need for a room underground in the parking lot to keep the batteries.

1	Mr. Bliss communicated that the invertor is located adjacent to the room where the		
2	batteries are. The invertor provides simple invertor controls, preprogrammed demand		
3	management, and charging and discharging for the battery using the solar panel. The		
4 5	main switches and disconnects are also in the invertor room. Mr. Bliss disclosed that the invertor is a Princeton Power system BiGi-250, which went out of business shortly after		
5 6	installation. This has affected the maintenance and operations of the invertor. The		
7	invertor is a dual DC port, so no additional invertors are required to connect to the solar		
8	panel and connects directly.		
9			
10	Mr. Bliss talked about the microgrid supervisory controller. He revealed that the		
11 12	supervisory controller provides all the oversite of the microgrid system:		
13 14 15	<ul> <li>Optimizes savings/system performance by reducing overall site energy consumption, site peak loads, charging the batteries overnight, and using that energy during expensive times.</li> </ul>		
16 17	<ul> <li>Islanding capabilities mean continuing operating system throughout utility outages.</li> </ul>		
18 19 20	<ul> <li>High fidelity data collection/analysis by utilizing phasor measurement units and giving GPS timestamped data, allowing for high visibility into various electrical issues or any issues with the system.</li> </ul>		
21			
22	Mr. Griffiths gave a brief overview of the solar and invertor power performance of the		
23	system. He indicated that the invertor uses low-cost off-peak energy to charge the		
24	batteries, which can be used with solar energy during expensive times.		
25			
26	Mr. Griffiths talked about the lessons learned from the project: The first lesson was on		
27	best practices for design and building. He advised using HCAI for developing and		
28 29	designing team. He said that early engagement with stakeholders like utility and facilities, made the project very successful. On the technical aspect, the point of		
29 30	interconnection and operational intent enabled the project to demonstrate islanding		
30 31	since it was both manual and automated.		
32			
33	The second lesson was on new construction versus retrofit. Mr. Bliss indicated that for		
34	new construction there is flexibility but are limited on locations for equipment for		
35	retrofits. Like for this project, batteries require a new room, and there are site limitations		
36	and project costs.		
37			
38	The third lesson was on planning. Mr. Bliss stated that in general, planning hospital		
39	shutdowns turned out to be extensive. The utility interconnection process should begin		
40	as early as possible to avert issues, and future planning involves sizing electrical		
41	equipment for future upgrades.		

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### 1 Discussion and Input

2

- 3 Dr. Bliss commented that the project was an innovative use of space. Dr. Bliss
- 4 explained the PCC power chart, stating the difference between the red and purple color
- 5 is the action of the controller to derive battery power export through the invertor and
- 6 decrease the load. The anticipated savings in this case, is 163 kW. This information can
- 7 be used in future hospital designs concerning energy systems, estimate carbon dioxide
- 8 aversion, and energy usage efficiency.
- 9
- 10 Mr. Rainey asked what the limiting factor is in sizing the array. Mr. Griffiths answered
- 11 that the limiting factor was the configuration of the electrical carriage, which has to pass
- 12 through the top of the main electrical board. Dr. Bliss added that there is a limitation of
- 13 existing infrastructure injected power and what utility will allow concerning power
- 14 outputs for interconnection purposes.
- 15
- Mr. Jackson asking if that was the most cost-effective way to install cables through an exterior wall. Dr. Bliss also stated that the most cost-effective method for installing the cables would be a direct penetration through the wall with a specified seal around it.
- 19
- 20 Mr. Schnick asked Mr. Griffiths to elaborate on the commissioning aspect and how it
- 21 was included in the contract documents. Mr. Bliss said that the commissioning was
- charged on behalf of Charge Bliss in the hospital's service.
- 23

24 Ms. Belair asked if there has ever been an experience like the invertor supplier going out of business and how they are handling the situation. Mr. Bliss answered that the 25 invertor is stable, and there is a lot of technology related to the batteries. Ms. Belair 26 27 asked about the vetting process in a case where the owner's company shuts down. Mr. Bliss stated that in that case, they look for a company with a track record that has a 28 similar installation. Dr. Bliss pointed out a resource called the Smart Invertor Working 29 30 Group, which has developed standards for invertor performance, so current invertors 31 have to meet their standards. This helps in the standardization of invertor technology. An interested party recommended that when selecting invertors, to look into companies 32 that adhere to the recommended communication standards if there is a change in the 33 microgrid. 34 35 36 Mr. Griffiths provided links to the reports and the projects concerning microgrids. 37

- 38 Informational and Action item
- 39 None.
- 40

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

2 agenda

3 Presenter: Roy Lopez, Committee Chair

4

### 5 Discussion and input

6

Mr. Jackson referred to follow-up on indoor air quality and HCAI applications in the next
 ECMC meeting scheduled in June 2022.

9

- 10 Mr. Griffiths thanked the committee for hosting the meeting, stating that they had
- 11 learned a lot.
- 12

### 13 6. Adjournment

14 Mr. Lopez adjourned the meeting on March 15, 2022, at approximately 11:33 a.m.

# **Board Rosters**

# 2022

• MEETING DATES

• BOARD MEMBERSHIP

CONSULTING MEMBERS

• COMMITTEE LIST

### Gavin Newsom, Governor

# HCA Department of Health Care Access and Information

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



April 14, 2022

To: Members, Hospital Building Safety Board From: Ken Yu, Executive Director Subject: Upcoming Meeting Dates

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

DATE	MEETING	LOCATION
<b>January 13, 2022</b> 9 am – 3 pm	Structural and Nonstructural Regulations Committee	GoToMeeting: <u>https://www.gotomeet.me/FDDWebin</u> <u>ar/hbsb-snsr-committee-meeting-</u> <u>january-2022</u> Or call: +1 (872) 240-3212 Access Code: 833-722-805
<b>January 26, 2022</b> 9 am – 3 pm	Board Procedures Committee (Ad hoc)	GoToMeeting: <u>https://www.gotomeet.me/FDDWebin</u> <u>ar/hbsb-bp-committee-meeting-</u> january-2022 Or call: +1 (408) 650-3123 Access Code: 834-687-925
<b>January 27, 2022</b> 9 am – 3 pm	Instrumentation Committee	GoToMeeting: <u>https://www.gotomeet.me/FDDWebin</u> <u>ar/hbsb-instrumentation-committee-</u> <u>mtg-january-2022</u> Or call: +1 (408) 650-3123 Access Code: 191-634-925

DATE	MEETING	LOCATION
<b>February 10, 2022</b> 9 am – 3 pm	Codes and Processes Committee	Microsoft Teams: Click here to join meeting
		<b>Or call:</b> +1 (916) 535-0978
		Access Code: 158 186 172#
<b>February 23, 2022</b> 9 am – 3 pm	Education and Outreach Committee	Microsoft Teams: Click here to join meeting
		<b>Or call:</b> +1 (916) 535-0978
		Access Code: 509 393 906#
<b>March 15, 2022</b> 9 am – 3 pm	Energy Conservation and Management Committee	Microsoft Teams: Click here to join meeting
		<b>Or call:</b> +1 (916) 535-0978
		Phone Conf ID: 509 393 906#
March 23, 2022	Technology and Research Committee	CANCELLED
<b>April 15, 2022</b> 10 am – 4 pm	Instrumentation Committee	Microsoft Teams: Click here to join the meeting
		<b>Or call:</b> +1 916-535-0978
		Phone Conf ID: 483 058 017#
		In Person: HCAI Los Angeles 355 S. Grand Ave, Ste. 2000 Los Angeles, California 90071
		HCAI Sacramento 2020 West El Camino Ave, Ste. 930 Sacramento, CA 95833

DATE	MEETING	LOCATION
<b>April 28, 2022</b> 10 am – 4 pm	Full Board	<u>Microsoft Teams:</u> <u>Click here to join the meeting</u>
		<b>Or call:</b> +1 916-535-0978
		Phone Conf ID: 797 666 93#
		In Person: HCAI Los Angeles 355 S. Grand Ave, Ste. 2000 Los Angeles, California 90071 HCAI Sacramento 2020 West El Camino Ave, Ste. 930 Sacramento, CA 95833
<b>May 12, 2022</b> 10 am – 4 pm	Codes and Processes Committee	Microsoft Teams: Click here to join the meeting
		<b>Or call:</b> +1 916-535-0978
		Phone Conf ID: 664 167 70#
		In Person: HCAI Los Angeles 355 S. Grand Ave, Ste. 2000 Los Angeles, California 90071
		HCAI Sacramento 2020 West El Camino Ave, Ste. 930 Sacramento, CA 95833

DATE	MEETING	LOCATION
<b>May 25, 2022</b> 10 am – 4 pm	Education and Outreach Committee	<u>Microsoft Teams:</u> <u>Click here to join the meeting</u>
		<b>Or call:</b> +1 916-535-0978
		Phone Conf ID: 127 072 398#
		In Person: HCAI Los Angeles 355 S. Grand Ave, Ste. 2000 Los Angeles, California 90071 HCAI Sacramento 2020 West El Camino Ave, Ste. 930 Sacramento, CA 95833
<b>May 27, 2022</b> 10 am – 4 pm	Instrumentation Committee	Microsoft Teams: Click here to join the meeting
		<b>Or call:</b> +1 916-535-0978
		Phone Conf ID: 695 549 385#
		In Person: HCAI Los Angeles 355 S. Grand Ave, Ste. 2000 Los Angeles, California 90071
		HCAI Sacramento 2020 West El Camino Ave, Ste. 930 Sacramento, CA 95833

DATE	MEETING	LOCATION
<b>June 14, 2022</b> 10 am – 4 pm	Energy Conservation and Management Committee	Microsoft Teams: Click here to join the meeting
		<b>Or call:</b> +1 916-535-0978
		Phone Conf ID: 840 158 903#
		In Person: HCAI Los Angeles 355 S. Grand Ave, Ste. 2000 Los Angeles, California 90071 HCAI Sacramento 2020 West El Camino Ave, Ste. 930 Sacramento, CA 95833
<b>June 22, 2022</b> 10 am – 4 pm	Structural and Nonstructural Regulations Committee	Microsoft Teams: Click here to join the meeting
		<b>Or call:</b> +1 916-535-0978
		Phone Conf ID: 202 080 82#
		<u>In Person:</u> HCAI Los Angeles 355 S. Grand Ave, Ste. 2000 Los Angeles, California 90071
		HCAI Sacramento 2020 West El Camino Ave, Ste. 930 Sacramento, CA 95833

DATE	MEETING	LOCATION
<b>July 14, 2022</b> 10 am – 4 pm	Codes and Processes Committee	<u>Microsoft Teams:</u> <u>Click here to join the meeting</u>
		<b>Or call:</b> +1 916-535-0978
		Phone Conf ID: 466 558 107#
		In Person: HCAI Los Angeles 355 S. Grand Ave, Ste. 2000 Los Angeles, California 90071 HCAI Sacramento 2020 West El Camino Ave, Ste. 930 Sacramento, CA 95833
<b>uly 27, 2022</b> 10 am – 4 pm	Technology and Research Committee	Microsoft Teams: Click here to join the meeting
		<b>Or call</b> : +1 916-535-0978
		Phone Conf ID: 677 110 790#
		<u>In Person:</u> HCAI Los Angeles 355 S. Grand Ave, Ste. 2000 Los Angeles, California 90071
		HCAI Sacramento 2020 West El Camino Ave, Ste. 930 Sacramento, CA 95833

DATE	MEETING	LOCATION
<b>August 11, 2022</b> 10 am – 4 pm	Full Board	Microsoft Teams: Click here to join the meeting
		<b>Or call</b> : +1 916-535-0978
		Phone Conf ID: 397 546 304#
		In Person: HCAI Los Angeles 355 S. Grand Ave, Ste. 2000 Los Angeles, California 90071 HCAI Sacramento 2020 West El Camino Ave, Ste. 900 Sacramento, CA 95833
<b>August 17, 2022</b> 10 am – 4 pm	Education and Outreach Committee	Microsoft Teams: Click here to join the meeting
		<b>Or call:</b> +1 916-535-0978
		Phone Conf ID: 589 645 35#
		<u>In Person:</u> HCAI Los Angeles 355 S. Grand Ave, Ste. 2000 Los Angeles, California 90071
		HCAI Sacramento 2020 West El Camino Ave, Ste. 930 Sacramento, CA 95833

DATE	MEETING	LOCATION
<b>September 13, 2022</b> 10 am – 4 pm	Energy Conservation and Management Committee	Microsoft Teams: Click here to join the meeting
		<b>Or call:</b> +1 916-535-0978
		Phone Conf ID: 411 125 179#
		In Person: HCAI Los Angeles 355 S. Grand Ave, Ste. 2000 Los Angeles, California 90071 HCAI Sacramento 2020 West El Camino Ave, Ste. 930 Sacramento, CA 95833
<b>September 22, 2022</b> 10 am – 4 pm	Structural and Nonstructural Regulations Committee	Microsoft Teams: Click here to join the meeting
·		<b>Or call:</b> +1 916-535-0978
		Phone Conf ID: 813 956 637#
		In Person: HCAI Los Angeles 355 S. Grand Ave, Ste. 2000 Los Angeles, California 90071
		HCAI Sacramento 2020 West El Camino Ave, Ste. 930 Sacramento, CA 95833

DATE	MEETING	LOCATION
<b>October 13, 2022</b> 10 am – 4 pm	Codes and Processes Committee	<u>Microsoft Teams:</u> <u>Click here to join the meeting</u>
		<b>Or call:</b> +1 916-535-0978
		Phone Conf ID: 755 694 74#
		In Person: HCAI Los Angeles 355 S. Grand Ave, Ste. 2000 Los Angeles, California 90071 HCAI Sacramento 2020 West El Camino Ave, Ste. 930 Sacramento, CA 95833
<b>October 19, 2022</b> 10 am – 4 pm	Education and Outreach Committee	Microsoft Teams: Click here to join the meeting
		<b>Or call:</b> +1 916-535-0978
		Phone Conf ID: 375 972 865#
		In Person: HCAI Los Angeles 355 S. Grand Ave, Ste. 2000 Los Angeles, California 90071 HCAI Sacramento 2020 West El Camino Ave, Ste. 930 Sacramento, CA 95833

DATE	MEETING	LOCATION
<b>October 27, 2022</b> 10 am – 4 pm	Instrumentation Committee	Microsoft Teams: Click here to join the meeting
		<b>Or call</b> : +1 916-535-0978
		Phone Conf ID: 165 349 325#
		In Person: HCAI Los Angeles 355 S. Grand Ave, Ste. 2000 Los Angeles, California 90071
		HCAI Sacramento 2020 West El Camino Ave, Ste. 930 Sacramento, CA 95833
<b>November 1, 2022</b> 10 am – 4 pm	Technology and Research Committee	Microsoft Teams: Click here to join the meeting
		<b>Or call:</b> +1 916-535-0978
		Phone Conf ID: 253 486 424#
		In Person: HCAI Los Angeles 355 S. Grand Ave, Ste. 2000 Los Angeles, California 90071
		HCAI Sacramento 2020 West El Camino Ave, Ste. 930 Sacramento, CA 95833
<b>December 7, 2022</b> 10 am – 4 pm	Two-day Full Board (Day 1)	Microsoft Teams: Click here to join the meeting
		<b>Or call:</b> +1 916-535-0978
		Phone Conf ID: 865 112 831#
		Sacramento: HCAI 2020 W. El Camino Ave. Conference Center 900 A/B Sacramento, CA 95833

DATE	MEETING	LOCATION	
<b>December 8, 2022</b> 9 am – 12 pm	Two-day Full Board (Day 2)	<u>Microsoft Teams:</u> <u>Click here to join the meeting</u> Or call: +1 916-535-0978 Phone Conf ID: 865 112 831#	
		Sacramento: HCAI 2020 W. El Camino Ave. Conference Center 900 A/B Sacramento, CA 95833	

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, <u>evett.torres@hcai.ca.gov</u> 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

### HOSPITAL BUILDING SAFETY BOARD MEMBERSHIP

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	6/2021	1 <sup>st</sup> term
1 electrical engineer	Roy L. Lopez	6/2018	6/2022	1 <sup>st</sup> term
1 hospital facilities manager	Bruce A. Rainey	12/2018	12/2022	1st term
1 local building official	David Khorram	6/2019	6/2023	1 <sup>st</sup> term
1 general contractor	Pete Kreuser	7/2016	7/2024	2 <sup>nd</sup> term
1 fire/life safety representative	Scott L. Jackson	6/2018	6/2022	1 <sup>st</sup> term
1 hospital inspector of record	Mike Hooper	5/2015	5/2023	2 <sup>nd</sup> term
3 public members	Michele Lampshire David Bliss D. Michael Foulkes	12/2019 5/2016 6/2017	12/2023 5/2024 6/2021	1 <sup>st</sup> term 2 <sup>nd</sup> term 1 <sup>st</sup> term
TOTAL	16			

### Appointed Members (Appointed by HCAI Director)

Ex-Officio Members		
HCAI, Director	Elizabeth Landsberg	
State Fire Marshal	Mike Richwine	
State Geologist	Steve Bohlen (Acting) Tim McCrink/Jennifer Thornburg (Delegates)	No Term of Office
Building Standards Commission, Executive Director	Mia Marvelli	Stipulated
Department of Public Health, Director	Tomás J. Aragón, M.D., Dr. P.H. Nathaniel Gilmore (Delegate)	
Facilities Development (HCAI), Deputy Director	Chris Tokas	
TOTAL	6	

Director Appointed Ex-Officio Members (Serve at pleasure of Director)		
2 members	Bert HurlbutNo Term of OfficeMichael O'ConnorStipulated	
TOTAL	2	

|--|

# **2022 CONSULTING COMMITTEE MEMBERS**

Benjamin Broder, MD, PhD, CPPS KAISER PERMANENTE/SO. CALIFORNIA 393 E. Walnut St. 3 <sup>rd</sup> Floor NW Pasadena, CA 91188-8034 (626) 405-2501 Benjamin.I.Broder@kp.org • Technology and Research Committee	Gary Dunger Executive Director, Facilities Design and Construction Cedars-Sinai Health System 6500 Wilshire Blvd, 20 <sup>th</sup> Floor Los Angeles, CA 90048 (323) 866-6537 Gary.Dunger@cshs.org • Codes and Processes Committee • Education and Outreach Committee • Technology and Research Committee
John Griffiths PE LEED AP CONTECH-CA 366 Forrest Ave. Fairfax, CA 94930 (415) 652-4833 JGriffiths@contech-ca.com • Energy Conservation and Management Committee	Hamid Haddadi California Geological Survey 801 K Street, MS 13-35 Sacramento, CA 95814 (916) 322-9304 FAX: (916) 323-7778 Hamid.Haddadi@consrvation.ca.gov • Instrumentation Committee
Mark Hershberg, SE KPFF Consulting Engineers 6080 Center Drive, Suite 300 Los Angeles, California 90045 (310) 665-1536 <u>MHershberg@kpff-la.com</u> • Codes and Processes Committee	<ul> <li>Moh Huang</li> <li>California Geological Survey</li> <li>Moh.Huang@gmail.com</li> <li>Instrumentation Committee</li> </ul>
<ul> <li>Eric C. Johnson, PE</li> <li>President</li> <li>ECOM Engineering, Inc.</li> <li>1796 Tribute Road, Suite 100</li> <li>Sacramento, CA 95815</li> <li>(916) 641-5600</li> <li>ECJ@ecomeng.com</li> <li>Energy Conservation and Management Committee</li> <li>Technology and Research Committee</li> </ul>	<ul> <li>David Lockhart CHFM, CEM</li> <li>National Facilities Services</li> <li>Kaiser Permanente</li> <li>1600 Eureka Road</li> <li>Roseville, CA 95661</li> <li>(916) 784-5280; tie-line (8-514)</li> <li>Dave.Lockhart@kp.org</li> <li>Energy Conservation and Management Committee</li> </ul>
Michelle Malone, MPA Chief Executive Officer/Owner TruNrth, Inc. (831)809-9596 (cell) Michellejm284@gmail.com • Structural and Nonstructural Regulations Committee	<ul> <li>Tony Shakal</li> <li>California Geological Survey</li> <li><u>Tshakal@pacbell.net</u></li> <li>Instrumentation Committee</li> </ul>

April 28, 2022

# **2022 CONSULTING COMMITTEE MEMBERS**

Bill Zellmer, AIA, CASp	
Program Manager—Physical Access	
Compliance and Regulatory Affairs	
Sutter Health	
(916) 216-3491 (cell)	
Zellmeb@sutterhealth.org	
Education and Outreach Committee	

### HOSPITAL BUILDING SAFETY BOARD **2022 COMMITTEES**

### BOARD PROCEDURES COMMITTEE (AD HOC)

### **Committee Members:**

Michael Foulkes, Chair Pete Kreuser, Vice-Chair Louise Belair

# **Bruce Rainev**

### Focus/Goals:

Meet as needed for:

Policies and Procedures updates

o Nominating committee, training/onboarding members

### CODES AND PROCESSES COMMITTEE

### **Committee Members:** Michael O'Connor, Chair Roy Lopez, Vice-Chair Louise Belair Mike Hooper Scott Jackson Pete Kreuser Michele Lampshire Scott Mackey Jim Malley Farzad Naeim

### **Consulting Members:**

John Donelan Gary Dunger Mark Hershberg

### Focus/Goals:

- Update CANs and PINs to code (ongoing)
- Mental health jurisdiction flowchart and guide
- TIO Program: virtual/offsite inspections
- Develop standards for a behavioral health observation unit
- Evaluate and articulate detailed building standards for SNFs
- Emergency Design Guide
- Title 24, Part 3, 4, and 5
  - NPC-5 Water, Sewer storage requirements
  - o Identify code modifications to support Part 6 implementation of energy savings measures
- Revisit MEP systems Inspections requirements
- Revisit Fire Protection drawing stamping requirements per MEOR
- Ventilation Table Standard Format

# **Meeting Dates:**

February 10 May 12 July 14 October 13

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**HCAI Representatives:** 

**HCAI Representatives:** 

Brett Beekman

Diana Navarro

Diana Scaturro

Nanci Timmins

Carl Scheuerman

Rvan Nelson

Mickey Fong

**Bill Gow** 

Roy Lobo

Joe LaBrie Carl Scheuerman **Meeting Dates:** 

January 26

### EDUCATION AND OUTREACH COMMITTEE

### Committee Members:

Mike Hooper, Chair Pete Kreuser, Vice-Chair Louise Belair Deepak Dandekar Bert Hurlbut David Khorram Scott Mackey Bruce Rainey

### HCAI Representatives:

Hussain Bhatia Monica Colosi Mickey Fong Bill Gow Joe LaBrie Cesar Ponce Diana Scaturro Nanci Timmins

### Meeting Dates:

February 23 May 25 August 17 October 19

### **Consulting Members:**

John Donelan Gary Dunger Bill Zellmer

### Focus/Goals:

- Webinars:
  - o Offsite Fabrication/Pre-assembled components
  - $_{\odot}$  PINs and CANs related to Fire Life Safety, Pre-approvals, medicine dispensing units and emergency projects
  - $\circ$  Emergency Design Guide
  - $_{\odot}\,\text{Develop}$  a regular curriculum and predictable calendar for webinars
- Engage volunteers based on webinar list presented at last committee meetings:
  - California Administrative Code 1Q2022
  - PIN 50 2Q2022
  - Emergency Design Guide 3Q2022
- Prepare for 2023 Seminar
- Define outreach process
  - Contact licensing boards to get the word out about Ed Opp/listserv subscription and promote HCAI data sharing

### ENERGY CONSERVATION AND MANAGEMENT COMMITTEE

Committee Members:	HCAI Representatives:
Scott Jackson, Chair	Bill Gow
VACANT, Vice-Chair	Ryan Nelson
Louise Belair	Diana Scaturro
David Bliss	Jamie Schnick
Deepak Dandekar	Carl Scheuerman
Michael Foulkes	Nanci Timmins
David Khorram	
Michele Lampshire	
Roy Lopez	
Bruce Rainey	
Conculting Mombaro	Masting Datas:
Consulting Members:	Meeting Dates:
John Griffiths	March 15
Eric Johnson	June 14
David Lockhart	September 13
Focus/Goals:	
<ul> <li>Work with CEC to develop mutually agreeable standards for hospital building energy</li> </ul>	
efficiency in 2025 code cycle	
Identify HCAI research projects	for anargy conservation, reduction of carbon footprint, and

- Identify HCAI research projects for energy conservation, reduction of carbon footprint, and cost savings while maintaining health and safety
- Conclusion: Develop recommendations for the next code cycle modification for HCAI to address microgrids, distributed energy resources, and interconnection to normal power versus emergency power. Identify how to overcome CMS for implementation. Microgrid demonstration project

### **INSTRUMENTATION COMMITTEE**

Committee Members:	HCAI
Marshall Lew, Chair	Representatives:
Bruce Clark, Vice-Chair	Hussain Bhatia
Jim Malley	Erol Kalkan
Farzad Naeim	Roy Lobo
Jennifer Thornburg	Ali Sumer
	Meeting Dates:
Consulting Members:	January 27
Hamid Haddadi	April 15
Moh Huang	May 27
Tony Shakal	October 27
Focus/Goals:	

- Continue working with HCAI staff on scheduled instrumentation installations
- Develop white paper for monitoring earthquake recovery
- Consider other systems and monitoring devices

### STRUCTURAL AND NON-STRUCTURAL REGULATIONS COMMITTEE

Committee Members:
Jim Malley, Chair
Farzad Naeim, Vice-Chair
Bruce Clark
Mike Hooper
David Khorram
Marshall Lew
Michael O'Connor
Jennifer Thornburg
Consulting Member:
Mark Hershberg
Michelle Malone

### HCAI Representatives:

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

### Meeting Dates:

January 13 June 22 September 22

### 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
- Issues regarding repurposing hospital buildings (ongoing)
- Develop pre-approved details
- Revisit NPC-5 requirements (in progress)

### TECHNOLOGY AND RESEARCH COMMITTEE

### Committee Members:

Bruce Rainey, Chair Michael Foulkes, Vice-Chair David Bliss Deepak Dandekar Bert Hurlbut Roy Lopez Scott Mackey Michael O'Connor **Consulting Member:** Benjamin Broder Gary Dunger Eric Johnson HCAI Representatives: Hussain Bhatia Joe LaBrie Diana Scaturro Carl Scheuerman Jamie Schnick Nanci Timmins

### Meeting Dates:

March 23- CANCELLED July 27 November 1

### Focus/Goals:

- Explore subjects of telemedicine and robotics
- Discuss the effect of technologies on healthcare equity
- Monitor CDPH electronic health records redundancy issues in the event of power failure and watch for potential effects to code
- Emerging tools
  - Technologies that help reduce the carbon footprint for healthcare facilities and implementation relative to code implementation of emerging tools relative to the code.

### FULL BOARD MEETING DATES

April 28 – Sacramento and Los Angeles August 11 – Sacramento and Los Angeles December 7 and 8 – Sacramento