



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



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

Because of the COVID-19 emergency, this meeting will only be held by teleconference. Board members and members of the public may fully participate from their own locations.

NOTICE OF PUBLIC MEETING

HOSPITAL BUILDING SAFETY BOARD
Full Board Meeting

Appointed Members
 Louise Belair, Chair
 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

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

Dates:
 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: 599-100-245

Day Two:
[Day 2 HBSB GoToMeeting FB Meeting](#)
 Access Code: 878-753-989

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
 Michael Nearman (Delegate)

Tomás Aragón, MD, DrPH
 Dept. of Public Health Director
 Nathaniel Gilmore (Delegate)

Chris Tokas
 HCAI
 Facilities Development Division
 Deputy Director

Executive Director
 Ken Yu

For more detailed instructions on how to join via GoToMeeting, see pages 4 and 5.

AGENDA

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

Item	Subject	Facilitator
2	Roll Call and Meeting Advisories/Expectations <ul style="list-style-type: none"> • Suspension of Bagley-Keene Open Meeting Act requirements per Government Code Section 11133 • Conduct of Meeting 	Ken Yu, HBSB Executive Director (or designee)
3	HCAI Update <ul style="list-style-type: none"> • Update on HCAI programs and initiatives • Discussion and public input 	Elizabeth Landsberg, HCAI Director (or designee)
4	Overview and approval of the August 18, 2021 Full Board draft Meeting Report/Minutes <ul style="list-style-type: none"> • Discussion and public input 	Louise Belair, Board Chair (or designee)
5	Structural and Nonstructural Regulations Committee <ul style="list-style-type: none"> • Overview and approval of the June 30, 2021 draft Meeting Report/Minutes • Discussion and public input 	Jim Malley, Acting Committee Chair (or designee)
6	Education and Outreach Committee <ul style="list-style-type: none"> • Overview and approval of the following draft Meeting Report/Minutes: <ul style="list-style-type: none"> ○ July 14, 2021 ○ October 13, 2021 • Discussion and public input 	Mike Hooper, Committee Chair (or designee)
7	Codes and Processes Committee <ul style="list-style-type: none"> • Overview and approval of the September 23, 2021 draft Meeting Report/Minutes • Discussion and public input 	Michael O'Connor, Committee Chair (or designee)
8	Energy Conservation and Management Committee <ul style="list-style-type: none"> • Overview and approval of the October 7, 2021 draft Meeting Report/Minutes • Discussion and public input 	Roy Lopez, Committee Chair (or designee)
9	Instrumentation Committee <ul style="list-style-type: none"> • Overview and approval of the October 28, 2021 draft Meeting Report/Minutes • Discussion and public input 	Marshall Lew, Committee Chair (or designee)

Item	Subject	Facilitator
10	Letter of Commendation to Paul Coleman on behalf of the Board <ul style="list-style-type: none"> • Discussion and public input 	Marshall Lew, Board Member (or designee)
11	Special Presentation: <i>The Proposed ASCE 7-22 Multi-Period Response Spectra – Case Study: Impact on the Los Angeles Metropolitan Area</i> <ul style="list-style-type: none"> • Discussion and public input 	Marshall Lew, Board Member (or designee)
12	Presentation: <i>Bagley-Keene Open Meeting Act and Its Restrictions</i> <ul style="list-style-type: none"> • Discussion and public input 	James Yi, HCAI Attorney (or designee)
13	Review and approve 2022 Committee Assignments, Goals and Meeting Calendar <ul style="list-style-type: none"> • Discussion and public input 	Louise Belair, Board Chair
14	Inspection Services Unit Update <ul style="list-style-type: none"> • Inspection Services Unit to provide an update on accomplishments year-to-date • Discussion and public input 	Joe LaBrie FDD Inspection Services Unit Supervisor (or designee)
15	Structural Services Section Update <ul style="list-style-type: none"> • Structural Services Section to provide an update on accomplishments year-to-date • Discussion and public input 	Roy Lobo, FDD Principal Structural Engineer (or designee)
16	Building Standards Unit Update <ul style="list-style-type: none"> • Building Standards Unit to provide an update on accomplishments year-to-date • Discussion and public input 	Richard Tannahill, FDD Building Standards Unit Supervisor (or designee)
17	Fire Prevention Unit Update <ul style="list-style-type: none"> • Fire Prevention Unit to provide an update on accomplishments year-to-date • Discussion and public input 	Nanci Timmins, FDD Chief Fire Life Safety Officer (or designee)
18	Electronic Services Update <ul style="list-style-type: none"> • Electronic Services Unit to provide an update on accomplishments year-to-date • Discussion and public input 	Chris Tokas, FDD Deputy Director (or designee)

Item	Subject	Facilitator
19	FDD Update <ul style="list-style-type: none"> • Workload and performance • Personnel changes • Discussion and public input 	Chris Tokas, FDD Deputy Director (or designee)
20	Comments from the Public/Board Members on issues not on this agenda The Board will receive comments from the Public/Board Members. Matters raised at this time may be taken under consideration for placement on a subsequent agenda.	Louise Belair, Board Chair (or designee)

The Board may take action under any agenda item. Every effort will be made to address each agenda item as listed. However, the agenda order is tentative and subject to change without prior notice. A 30 to 60-minute lunch may be taken some time during the day.

For further information about this meeting, please contact Evett Torres at (916) 440-8453, evett.torres@hcai.ca.gov, or by sending a letter to 2020 West El Camino Avenue, Suite 800, Sacramento, CA 95833. This agenda and other notices about meetings are posted on the Internet at <https://hcai.ca.gov/construction-finance/hbsb/>.

Individuals with disabilities may request an accommodation or modification to observe or participate in the meeting by contacting 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.

GoToMeeting Instructions

For best results, please use Google Chrome or Mozilla Firefox browsers to join meeting.

***** Members of the public are NOT required to identify themselves or provide other information to attend or participate in this meeting. If GoToMeeting requires a name, they may enter "Anonymous." They may also input fictitious information for other requested information if required to attend the meeting (e.g., anonymous@anonymous.com).**

Run a system check a few minutes before the meeting starts:

Click: <https://support.goto.com/meeting/system-check>

DAY ONE—December 8, 2021

To join the meeting from your computer, tablet or smartphone:

Click: <https://www.gotomeet.me/FDDWebinar/hbsb-full-board-day-1-december-2021>

To call in:

Dial: +1 (408) 650-3123 (United States)

Enter Access Code: 599-100-245#

If you have trouble being automatically launched into session:

Click: <https://www.gotomeeting.com/meeting/join-meeting>

Enter Access Code: 599-100-245

DAY TWO—December 9, 2021

To join the meeting from your computer, tablet or smartphone:

Click: <https://www.gotomeet.me/FDDWebinar/hbsb-full-board-day-2-december-2021>

To call in:

Dial: +1 (408) 650-3123 (United States)

Enter Access Code: 878-753-989#

If you have trouble being automatically launched into session:

Click: <https://www.gotomeeting.com/meeting/join-meeting>


Enter Access Code: 878-753-989

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Full Board

Draft Meeting Report/Minutes

August 183, 2021

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OSHDP Office of Statewide Health Planning and Development



Hospital Building Safety Board
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**HOSPITAL BUILDING SAFETY BOARD
Full Board Meeting**

**Wednesday, August 18, 2021
9:00 a.m. - 3:00 p.m.**

Teleconference Meeting Access:
HBSB Virtual Full Board Meeting
Access Code: 169-172-685

Board Members Present:

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

OSHDP Staff Present:

Elizabeth Landsberg, OSHPD Director
Chris Tokas, OSHPD Acting Deputy Director
Arash Altoontash, Deputy Division Chief
Richard Tannahill, Acting Deputy Div. Chief
Monica Colosi
Mickey Fong
Bill Gow
Tim Gutierrez
Joe LaBrie
Roy Lobo
David Neou
William Owen
Diana Scaturro
Jamie Schnick
James Yi, OSHPD Attorney
Kathi Zamora

Director-Appointed

Ex-Officio Members Present

Bert Hurlbut
Michael O'Connor

HBSB Staff:

Ken Yu, Executive Director
Joanne Jolls
Evelt Torres

1. Welcome and Introductions

- 1 Louise Belair, Committee Chair, called the meeting to order on August 18, 2021, at 9:00 a.m.
- 2 and OSHPD Executive Director, Ken Yu called roll.
- 3

1 Twelve members of the Board present constitutes a quorum. There being twelve present at the
2 time of roll, a quorum was established.

3
4 Mr. Yu read the public announcement regarding COVID-19, meeting rules and procedures.

5
6 OSHPD Update

7 **Presenter:** Elizabeth Landsberg, OSHPD Director

8 Ms. Landsberg introduced and swore in new HBSB Members

- 9 • Scott Mackey
 - 10 ○ He has 35 years of experience as a licensed architect.
 - 11 ○ He has worked with OSHPD on a broad range of healthcare facility projects for the
 - 12 past 18 years, specifically focusing on hospital facilities impacted by the SB 1953
 - 13 seismic retrofit program.
 - 14 ○ He has been a long-standing member of the American Institute of Architects (AIA)
 - 15 and is co-chairperson of AIA California Healthcare Facilities.
- 16 • Farzad Naiem
 - 17 ○ He has 36 years of experience as a licensed structural engineer specializing in
 - 18 structural analysis, research and development, and seismic retrofit design of
 - 19 buildings.
 - 20 ○ He has extensive experience in the design, peer review, and plan-check of
 - 21 numerous hospital buildings for OSHPD.
 - 22 ○ He has published five textbooks, more than 160 peer-reviewed papers, and has
 - 23 developed 45 different software systems for earthquake engineering design and
 - 24 education.

25 Ms. Landsberg recognized outgoing HBSB members: Rami Elhassan, Structural Engineer
26 Representative, and Bruce Macpherson, Architect Representative.

- 27 • Mr. Tokas spoke on behalf of the Board and thanked both Rami Elhassan and Bruce
- 28 Macpherson for their time, service, and dedication.
- 29 • Mr. Yu personally thanked them both and informed them their plaques were being
- 30 shipped to them.

31 Ms. Landsberg acknowledged the second-term appointments of Louise Belair, Mechanical
32 Engineer Representative, and Michael Foulkes, Public Member Representative

33 Program Updates:

- 34 • Paul Coleman retired last month, after more than 30 years with OSHPD.
 - 35 ○ In the process of formal hiring process.

36 State Budget (including recasting OSHPD):

- 37 • Department review of law, role, and mission of OSHPD and common themes:
 - 38 ○ access to safe healthcare facilities; access to financing for building those
 - 39 facilities; access to a diverse and skilled healthcare workforce; helping to provide
 - 40 access and information to many data sets; and retaining all our existing programs
 - 41 and functions
 - 42 ○ transforming our current health care workforce clearinghouse to a broader
 - 43 research and data center to advance our study of healthcare workforce supply
 - 44 and demand
 - 45 ○ support culturally and linguistically competent care in the state
- 46 • Department of Healthcare Access and Information (HCAI)

- 1 o Proposed in the Governor's January budget but has not yet been finalized
- 2 o Negotiations on the Office of Health Care affordability continue
- 3 • OSHPD staff continue to telework
- 4 o Given the spread of the Delta variant and the current concerns, telework has
- 5 been extended until November 2021.

6 **Discussion and public Input**

7 Ms. Belair expressed her excitement to have Scott Mackey and Farzad Naiem join the board
8 and for the future of OSHPD projects.

9

10 **Information and Action Item**

- 11 • None.

12 **2. Overview and approval of April 22, 2021, Full Board draft Meeting Report/Minutes**

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

14 **Discussion and public Input**

15 **MOTION:** [Jackson/Dandekar]

16 The Board voted to accept the April 22, 2021; Full Board draft Meeting Report/Minutes as
17 presented. Mr. Yu noted there was one abstained vote.

18 **Informational item and Action Item**

- 19 • None.

20 **3. Technology and Research Committee**

- 21 • Overview and approval of the April 29, 2021 draft Meeting Report/Minutes

22 **Presenter:** Bruce Rainey, Committee Chair

23 **MOTION:** [Rainey/Khorram]

24 The Board voted to accept the April 29, 2021 draft Meeting Report/Minutes as presented.

25 **Information item and Action Item**

- 26 • None.

27 **4. Instrumentation Committee**

- 28 • Overview and approval of the May 20, 2021, draft Meeting Report/Minutes

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

30 **Discussion and public Input**

31 Mr. Lew addressed the next step was developing the outline of the white paper. And assign
32 authors to the various sections, develop the draft, solicit comments on the draft, and ultimately
33 hope to finalize the white paper. The timeframe is undetermined at this time but can establish at
34 next meeting in October.

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Mr. Lew recognized Mr. Elhassan contributions to the committee and added that he looked forward to adding Mr. Naiem to the committee.

Mr. Dandekar asked if a post-mortem tool used in other ways to add value, is there any possibility of tie-in with the earthquake alert system. Mr. Lew answered that is a possibility to determine certain trigger levels that could send an alert the Office or hospital owners, to investigate the location immediately and could help quickly prioritize which facilities need to be looked at first after an earthquake.

Mr. Tokas shared that he gave a presentation at the CSMIP Annual Conference in 2012, on what the benefits of instrumentation are, because OSHPD has hospitals that are fully instrumented and others that are minimally instrumented required by code. The data collected from the instruments is invaluable for post-earthquake evaluations and issuing the appropriate posting for continued operations of buildings.

MOTION: [Lew/Lopez]

The Board voted to accept the May 20, 2021 draft Meeting Report/Minutes as presented.

Information item and Action Item

- None.

5. Energy Conservation and Management Committee

- Overview and approval of the June 10, 2021 draft Meeting Report/Minutes

Presenter: Roy Lopez, Committee Chair

MOTION: [Belair/Khorram]

The Board voted to accept the June 10, 2021; draft Meeting Reports/Minutes as presented.

Information item and Action Item

- None

6. Codes and Processes Committee

- Overview and approval of the June 24, 2021 draft Meeting Report/Minutes

Presenter: Michael O'Connor, Committee Chair

Discussion and public Input

Interested Party asked where to send recommendations for details and Mr. Yu suggested to send it to HBSB support staff so they can disseminate that information properly.

MOTION: [O'Connor/Hurlbut]

The Board voted to accept the June 24, 2021 draft Meeting Report/Minutes as presented.

1 **Information item and Action Item**

2 Mr. Lopez apologized for the internet issues and thanks Mr. Mackey for finishing the
3 presentation.

4

5 **7. Education and Outreach Committee**

- 6 • Update on the July 14, 2021, meeting

7 **Presenter:** Mike Hooper, Committee Chair

8 **Discussion and public Input**

9 Mr. Hooper announced that due to transitioning transcriptions the committee meeting held July
10 14, meeting minutes couldn't be transcribed. There will not be a motion to approve the minutes
11 and wanted to update the committee.

12 **Information item and Action Item**

13 None.

14 **8. Inspection Services Unit Update**

- 15 • Inspection Services Unit to provide an update on accomplishments year-to-date

16 **Presenter:** Joe LaBrie, FDD Inspection Services Unit Supervisor

17 **Discussion and public Input**

18 Mr. O'Connor asked how many people are signed up to receive the Tip of the Day on the
19 OSHPD ListServ. Mr. LaBrie answered approximately 600.

20 **Information item and Action Item**

- 21 • None

22 **9. Building Standards Unit Update**

- 23 • Building Standards Unit to provide an update on accomplishments year-to-date

24 **Presenter:** Richard Tannahill, Acting Deputy Division Chief

25 **Discussion and public Input**

26 Mr. O'Connor addressed the phenomenal amount of work and materials produced and covered
27 by Mr. LaBrie and Mr. Tannahill. He proceeded to ask regarding the emergency design guide if
28 there is anything that the board could do to help. Mr. Tannahill answered that the goal is to have
29 a draft by the end of August to submit to the Codes and Processes Committee for review and
30 input on the next steps.

31

32 Mr. O'Connor followed up with another question regarding clinics. One of the challenges he
33 experienced in the past is small clinics with staff of more than five, ending up with an inordinate
34 amount of toilet rooms compared to exam rooms. Are there any improvements coming down the
35 road in that regard? Mr. Tannahill stated that unfortunately that is outside of OSHPD control
36 because it is California law.

1 An Interested Party asked relative to the clinics, if OSHPD has looked at the addenda that has
2 come out for ASHRAE 70 for ventilation standards. Currently, in the California code “it’s one
3 size fits all”, but divvying up ASHRAE into the three sections, it gives clinics a lot of relief on the
4 ventilation requirements. Mr. Tannahill responded that Dave Mason has been looking into it.

5 **Information item and Action Item**

- 6 • None

7 **10. Structural Services Update**

- 8 • Structural Services Section to provide an update on accomplishments year-to-date

9 **Presenter:** Roy Lobo, FDD Principal Structural Engineer

10 **Discussion and public Input**

11 Mr. O’Connor requested clarification regarding the 2190 extensions on SPC 1; if a project falls
12 behind their enforceable compliance schedule and don’t complete the building, the penalty
13 would be that they couldn’t secure permits for anything other than for seismic work for that
14 building only, and not for the entire campus. Mr. Lobo stated that buildings that do not have an
15 extension but are still in compliance of the law, cannot do any additional work unless it is related
16 to seismic compliance or maintenance and repair.

17 **Information item and Action Item**

- 18 • None.

19 **11. Fire Prevention Unit Update**

- 20 • Fire Prevention Unit to provide an update on accomplishments year-to-date

21 **Presenter:** Tim Gutierrez, OSHPD Fire Life Safety Officer

22 **Discussion and public Input**

23 Mr. Jackson asked for clarification of training dates. Mr. Gutierrez stated that there is no
24 timeline at this time and suggested that he contact Ms. Timmins for actual training dates
25 because none have been scheduled yet.

26 **Information item and Action Item**

- 27 • None.

28 **12. Electronic Service Update**

- 29 • Update on accomplishments year-to-date

30 **Presenter:** Diana Scaturro, FDD Supervisor
31 William Owen, Division Support Section

32 **Discussion and public Input**

33 Ms. Belair asked if there will still be an option to mail a check in at all. Mr. Owen answered the
34 option to mail in checks is not going away and this will only impact those clients who currently
35 use the portal to make credit card transactions.

36

1 Interested party in chat questioned if the eTIO will include VCR. Ms. Scaturro answered it will.
2

3 **Information item and Action Item**

- 4 • None.

5 **13. Electronic Service Update**

- 6 • Workload and performance
7 • Personnel changes

8 **Presenter:** Chris Tokas, Acting FDD Deputy Division Director

9 **Discussion and public input**

10 An Interested Party asked if, given the newer acceptance of the modular construction, if he had
11 any advice for understanding the associated OSHPD expectations and parameters. Mr. Tokas
12 answered that it depends on the component and that it will likely be different for each one.
13 OSHPD is in the process of putting together a Policy Intent Notice that will provide guidance, but
14 it has not been published yet. In the meantime, the best course of action is to contact Roy Lobo
15 or himself directly for assistance.

16 **Information item and Action Item**

- 17 • Mr. O'Connor commended Mr. Tokas on the presentation and acknowledged that with so
18 many moving parts, from tracking reviews to trying to implement effective reporting tools for
19 design professionals. He added that looking at the fire proximity to facilities was very
20 sobering and that it underscores the importance of the work being done on the Emergency
21 Design Task Force.
- 22 • Ms. Belair acknowledged and congratulated Chris and Richard for taking on their new
23 assignments and offered the Board's support to tackle all the new aforementioned tasks.

24 **14. Comments from the Public/Board Members on Issues Not on This Agenda.**

- 25 • Mr. Lew suggested the Board draft a letter or issue a commendation to Paul Coleman for his
26 service and appreciation for all he has done.

27 Ms. Belair reminded the next Full Board meeting is December 8-9, 2021.

28 **15. Adjournment**


29 Ms. Belair adjourned the meeting at approximately 3:06 p.m.

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Structural and Nonstructural Regulations Committee

Draft Meeting Report/Minutes

June 30, 2021



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OSHPD Office of Statewide Health Planning and Development



Hospital Building Safety Board
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HOSPITAL BUILDING SAFETY BOARD
Structural and Non-Structural Regulations Committee

Wednesday, June 30, 2021
9:00 a.m. - 3:00 p.m.

Teleconference Meeting Access:
[HBSB GoToMeeting SNSR Committee](#)

Access Code: 298-937-869

Committee Members Present:

Jim Malley, Vice-Chair
Mike Hooper
David Khorram
Marshal Lew
Michelle Malone
Michael O’Connor
Jennifer Thornburg

Consulting Member:

Michelle Malone

OSHPD Staff:

Elizabeth Landsberg, OSHPD Director
Paul Coleman, FDD Deputy Director
Chris Tokas
Joe LaBrie
Roy Lobo
David Neou
Carl Scheueman
Jamie Schnick
James Yi

HBSB Staff:

Ken Yu, Executive Director
Joanne Jolls
Evet Torres

1. Welcome and Introductions

1 Jim Malley, Designated Committee Chair, called the meeting to order on June 30, 2021,
2 at 9:00 a.m. and OSHPD Executive Director, Ken Yu called roll.

4 Six members of the Committee present constitutes a quorum. There being seven present
5 at the time of roll, *a quorum was established.*

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

1 procedures.

2 **2. Review the March 24, 2021 final meeting report/minutes approved at the**

3 **Presenter:** Jim Malley, Designated Chair

4 **Informational and Action item**

- 5 • None.

6 **3. Proposed amendments to the 2022 California Building Code, Title 24, Part 2**

7 **Presenter:** Roy Lobo

8 Mr. Lobo mentioned that the expressed terms, updates and amendments in his
9 presentation was approved at the March 24, 2021, meeting. The intent of the presentation
10 is to provide updates to what was already presented and to open up these topics for
11 discussion, after which proposed language will be adjusted based on input received in
12 this meeting and brought back and presented in the next follow-up meeting.

- 13 • Updates to the non “A” Chapters to align with proposed code change
14 amendments to the “A” Chapters
- 15 • New proposed amendments to the “A” Chapters
- 16 • Revisions and restructure of Chapter 21/21A Masonry
- 17 • Updated the reference standards in Chapter 35

18 Chapter 16/16A

- 19 • Revisions made to match proposed amendments to Chapter 16A
- 20 • Adoption of ASCE 7-16 Supplements 2 and 3.
- 21 • Revised F_a Table 1613.2.3(1) and footnote *c* in both F_a and F_v tables to match
22 language in Supplement 3
- 23 ○ **1605.2 Alternate allowable stress design load**
24 Revised model code language to include the sentence:
25 *Each load combination shall be investigated with one or more of the*
26 *variable loads set to zero.*
- 27 ○ **1617A.1.5.3 ASCE 7, Section 12.2.3.2.** Modify ASCE 7, Section 12.2.3.2
28 by modifying Item and adding Items f, g, and h
- 29 ○ **12.2.3.2 Two-Stage Analysis Procedure. [OSHPD 1 & 4]** Not permitted
30 by OSHPD

31 Chapter 17/17A

- 32 ○ **1705.3.9.2 Preconstruction tests**

1 Shotcrete has been removed from the IBC.
2 Language for testing similar ACI 506R but written in mandatory language
3 ○ **1705.5.45 Structural glued laminated and cross-laminated timber.**
4 **[OSHPD 1R, 2 & 5]**
5 Added exception for non-custom prismatic glued laminated members
6 identified on drawings and sourced from stock or general inventory...

7 Chapter 18/18A

8 • **Section 1810 Deep Foundations**

- 9 ○ **1810.3.1.5.1 Helical piles seismic requirements. [OSHPD 1R, 2 & 5]**

10 Removed the word “ultimate”

- 11 ○ **1810.3.3.1.9 Helical piles.**

12 Load tests are required to determine ultimate capacity

- 13 ○ **1810.3.8 Precast concrete Piles.**

14 Same amendments as in the A Chapter

- 15 ○ **1810.3.10 Micropiles**

16 Removed the word “ultimate”

- 17 ○ **1810.3.11.2 Seismic Design Categories D through F.**

18 Exception for the need to provide connections is not permitted by OSHPD

- 19 ○ **1810.3.12 Grade beams.**

20 Changed exception

- 21 ○ **SECTION 1811 PRESTRESSED ROCK AND SOIL FOUNDATION**
22 **ANCHORS [OSHPD 1R, 2 & 5]**

- 23 ▪ **1811.3 Geotechnical requirements**

24 Class I corrosion protection is required for all permanent and
25 extended temporary anchors in service more than 2 years

- 26 ○ **SECTION 1812 EARTH RETAINING SHORING**

- 27 ▪ **1812.4.1 Geotechnical requirements**

28 Same as 1811.3

- 29 ○ **1812A.4.2 Structural requirements**

30 Editorial edit

31 Chapter 19/19A

- 32 ○ **1901.3.4 Tests for Post-Installed Anchors in Concrete [OSHPD 1R, 2**
33 **& 5].**

- 34 ○ **1901.3.4.3 Test frequency...**

35 Exception for state detention and correctional facilities of tension testing
36 requirements

- 37 ○ **1901.3.4.5 Test acceptance criteria**

38 Exception in spacing of apparatus support location when testing for bond

- 39 ○ **1905.1.7 ACI 318, Section 14.1.4 [OSHPD 1R, 2 & 5] and 1905A.1.7 ACI**
40 **318, Section 14.1.4 [OSHPD 1 & 4]**

- 1 Modified Section 14.1.4 with: Plain concrete shall not be permitted for a
 2 structure assigned to Seismic Design Category (SDC) D, E and F
- 3 ○ **1908.1 General**
 - 4 Added requirement for shotcrete core quality
 - 5 ○ **1908.2 Tests and Inspections. [OSHPD 1R, 2 & 5]**
 - 6 Added preconstruction test of shotcrete panels
 - 7 ○ **1910.3.4 ACI 318**
 - 8 Modification to Table 21.2.2
 - 9 ○ **1905A.1.3 ACI 318, Section 9.6.1.3**
 - 10 Minimum requirement added
 - 11 ○ **1908A.1 General**
 - 12 Added the appropriate ACI reference for evaluating shotcrete mockup
 13 panels
 - 14 ○ **1910A.5 Tests for post-installed anchors in concrete and 1910A.5.3**
 - 15 **Test frequency**
 - 16 Exception for state detention and correctional facilities of tension testing
 17 requirements
 - 18 ○ **1910A.5.5 Test acceptance criteria**
 - 19 Exception in spacing of apparatus support location when testing for bond

20 Chapters 21/21A

- 21 ● Revisions made were initiated by public comments received from the Masonry
 22 Institute and consensus achieved in a collaborative effort with OSHPD, DSA and
 23 the Masonry Institute.
- 24 ● Restructured and revised existing amendments rewritten as Modifications to TMS
 25 402/602 and duplicate language has been deleted. Minimal net change in
 26 regulatory effect.
- 27 ○ **2103.4 Metal reinforcement and accessories**
- 28 Defined “unidentifiable reinforcement”
- 29 ○ **2104.2.1... TMS 602, Article 3.3 B Placing Mortar and Units**
- 30 Replaced ½ inch masonry protrusions to ¼ inch
- 31 ○ **2104.2.2 TMS 602, Article 3.4 B Reinforcement.**
- 32 Modified language from TMS 602 Article 3.4 B.1 and B.3
- 33 ○ **2104.2.3 TMS 602, Article 3.4 D Anchor Bolts**
- 34 Combined/merged language from TMS 602 Article 3.4 D.3, D.5 and D.6.1
- 35 ○ **2105.3 Mortar and grout tests. [OSHPD 1R, 2 & 5]**
- 36 Changed requirement checking for mortar strength to checking for mortar
 37 proportions
- 38 ○ **2105.4 Masonry core testing. [OSHPD 1R, 2 & 5]**
- 39 Lowered exception for core testing requirement from 2000 psi to 1000 psi

- 1 ○ **2105.5 Masonry prism method testing** and **2105.6 Unit strength**
2 **method testing. [OSHPD 1R, 2 & 5]**
3 Deleted pointers to TMS 602
- 4 ○ **2107.7 Masonry Compressive Strength. [OSHPD 1R, 2 & 5]**
5 Lowered nominal strength value to 2000 psi from 3000 psi
- 6 ○ **2108.4 [OSHPD 1R, 2 & 5] TMS 402, Section 9.1.9.1.1.**
7 Changed the limit to 3000 psi from 4000 psi and revised the compressive
8 strength for clay masonry

9 Chapter 31

- 10 ○ **SECTION 3115 INTERMODAL SHIPPING CONTAINERS**
11 Not permitted by OSHPD

12
13 **Discussion and Public Input**

14 Mr. Lew posed the following questions regarding slide 28 and whether the text should be
15 as it appears. Tom Hale clarified that the first bullet is supposed to be a paragraph and
16 the next two bullets should be sub-bullets to that paragraph.

17 **4. Potential program for preapproval of premanufactured components and**
18 **systems**

19 **Presenter: Chris Tokas**

20 **Discussion and Public input**

21 Mr. Tokas presented the new acronym for a new OSHPD program: OSHPD Preapproved
22 Prefabricated Components and Systems, OPPCS. He explained that since the start of
23 the pandemic there has been an increase in the use of prefabrication. In the past,
24 prefabrication was used in a very limited capacity, but the growth of Building Information
25 Modeling (BIM) has made it more feasible to implement on construction projects. Mr.
26 Tokas presented examples of prefabricated components and systems used in the past,
27 such as bathrooms that have been built and assembled in other states, brought to the
28 project site and erected in place. He then presented examples of the approach seen more
29 often in the past year, modular construction. The module is prefabricated off-site, in a
30 controlled environment, outfitted with a multitude of nonstructural components and
31 elements. They are made in a standard size that can be transported with a semi-truck to
32 the construction site and are able to be connected to other modules, essentially allowing
33 entire buildings to be assembled using modules.

34 Mr. Coleman expressed the hope is to work with Board Committees to better define what
35 the OPPCS program is and what it isn't, what qualifies for the program and what doesn't.
36 Although aspects of the modulars that Mr. Tokas presented can be preapproved, such as
37 the structure and some of the systems, but that there is also a site or project component

1 side of the equation such as where they are assembled, where the utilities are coming
2 from, and where they are serving the central power, etc. Mr. Coleman expressed that
3 although there is only so much that can be preapproved, OSHPD would like to preapprove
4 as much as possible to not have to review them every single time, project by project.
5 There are currently a couple of projects that OSHPD is currently working on and the idea
6 is as we're moving through every concept, to present it to the Committees to get your
7 ideas and opinions on how the industry will receive it and what types of components and
8 systems would this be best suited for. Mr. Coleman clarified that although these questions
9 do not need to be answered today, it is something that OSHPD would like to start moving
10 forward on to get the program going as quickly as possible once the criteria for the
11 program has been established.

12 Mr. Lew commented that this is a very important program to pursue and expand. Because
13 of COVID in the past year there has been a need in many areas, including California, to
14 expand facilities temporarily. He noted that because we are beginning to see modular
15 construction in commercial spaces, it might only be a matter of time before it enters the
16 medical spaces as well.

17 Mr. Coleman agreed that the industry is definitely heading in that direction. OSHPD takes
18 baby steps but as the industry progresses, OSHPD expands the programs to meet
19 industry needs and to expand with it.

20 Ms. Malone asked for clarification that the modular structures being presented are not
21 just for temporary use, such as COVID, but will instead be used to provide other patient
22 cares services. Mr. Tannahill responded it was originally presented to OSHPD as
23 temporary modules to be used for purely emergency-type situations. He explained that
24 the proposal has since expanded to permanent structures, mounted onto a foundation
25 and used for expanding patient capacity.

26 Mr. Khorram suggested that if a hospital is unable to provide patient care after a natural
27 disaster, the ability to quickly assemble a structure, while the hospital is being rebuilt or
28 repaired, might be a very valid solution.

29 Mr. Malley remarked there is a lot of potential in modular construction. He explained that
30 he was involved in a proposed high-rise construction project, where the idea was to have
31 a structural core, with typical steel-reinforced concrete floor slabs and metal deck fill, and
32 then build the modules around the core perimeter, stack them, and tie them back into the
33 core for lateral resistance. He indicated that it became a big challenge for the modular
34 proponent to demonstrate how the diaphragm worked to bring those loads back into the
35 core structure. He, also, acknowledged that expanding into seismic areas where the
36 diaphragms are so integral to the overall performance of the building is going to be a
37 potential challenge.

1 Mr. Malley then asked Mr. Coleman and Mr. Tokas if there was a real push for self-
2 contained room units, like bathrooms, being proposed on new developments? He also
3 inquired if there were any other room types or applications other than bathrooms being
4 proposed? Mr. Tokas affirmed that OSHPD currently has two multimillion-dollar projects
5 that are moving forward with self-contained bathroom units and that the concept is gaining
6 traction. Mr. Tokas specified that so far bathrooms are the only room types being
7 proposed. Mr. Coleman added that OSHPD has seen some additions and new buildings
8 made of modular construction but those were just one-offs, nothing that could be
9 replicable. He noted that the bathroom modules are the first because they are fairly
10 complex and very repeatable, but that he believes that this system is the direction that
11 the industry will continue to move in.

12 Mr. Malley inquired how OSHPD prepares for seeing this type of system being proposed
13 on a regular basis? Mr. Coleman explained that OSHPD is putting together the program,
14 and the description of the program, continuing to work with manufacturers and hospitals
15 on their needs, then presenting it to the appropriate committees of the Board for review
16 and discussion to make sure that the program is going in the right direction. Mr. Coleman
17 remarked that something like this also requires modifications to the Electronic Services
18 Portal for applications, processing, etc. and that OSHPD will start with a more simplified
19 version of it and then as it advances, do the other technical parts of it. He stated that
20 Structural Support Unit within FDD will be tasked with assembling the program concept.

21 **5. Comments from the Public/Board Members on Issues Not on This Agenda.**

22 No comments.

23 **6. Adjournment**

24 Mr. Malley adjourned the meeting at approximately 10:17 a.m.

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Education and Outreach Committee

Draft Meeting Reports/Minutes

July 14, 2021
October 13, 2021

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OSHPD Office of Statewide Health Planning and Development

Hospital Building Safety Board

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HOSPITAL BUILDING SAFETY BOARD Education and Outreach Committee

Wednesday, July 14, 2021
9:00 a.m. - 3:00 p.m.

Teleconference Meeting Access:
HBSB GoToMeeting EO Committee
Access Code: 712-342-029

Committee Members Present:

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

Consulting Members:

John Donelan
Gary Dunger
Bill Zellmer

OSHPD Staff:

Paul Coleman, FDD Deputy Director
Chris Tokas, FDD Deputy Division Chief
Monica Colosi
Mickey Fong
Bill Gow
Joe LaBrie
Cesar Ponce
Diana Scaturro
Richard Tannahill
Nanci Timmins
James Yi, OSHPD Attorney

HBSB Staff:

Ken Yu, Executive Director
Joanne Jolls
Evet Torres

- 1 **1. Welcome and Introductions**
- 2 Facilitator: Mike Hooper, Committee Chair (or designee)
- 3 Committee Chair, Mike Hooper called the meeting to order on July 14, 2021, at
- 4 9:00 a.m. and OSHPD Executive Director, Ken Yu, called roll.

1 Six members of the Committee present constitutes a quorum. There being eight
2 present at the time of roll, a quorum was established.

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

5 **2. Review the February 10, 2021, final meeting report/minutes approved at the**
6 **April 22, 2021 Full Board Meeting**

7 Facilitator: Mike Hooper, Committee Chair (or designee)

8 Mr. Hooper moved to agenda item two and summarized the meeting report,
9 which was approved at the previous full board meeting.

10 **3. Facilities Development Division's Educational Webinar Update**

11 Facilitator: Richard Tannahill, OSHPD (or designee)

12 Mr. Hooper moved to agenda item three and turned to Richard Tannahill, OSHPD
13 Building Standard Supervisor, to go through all the suggested topics and put a list
14 together.

15 Mr. Tannahill presented a consolidated list of webinar topics to have done by the
16 end of the year. So far they have completed the 2019 Intervening Code,
17 Engineering Judgments and Code Application Notice (CAN)-108 webinars. The
18 OSHPD 3 Clinics webinar will be given in two sessions, in collaboration with the
19 Primary Care Association. The goal is to reach out to clinic owners and potential
20 owners in an effort to assist with the comprehension "how to make their building
21 OSHPD 3 compliant." Webinars for Accessibility CAN 2-11B and Policy Intent
22 Notice (PIN) 50 Integrated Review, will be presented once they are done.

23 Mr. Tannahill remarked that there was a slight decrease in attendance in the
24 webinars compared to last year, but still averaging over 400 attendees per
25 session. He assured the committee that they will keep an eye on attendance as
26 they move forward.

27 Mr. Tannahill presented some of the modifications that were made to the OSHPD
28 website. FDD implemented a web page specifically for webinars and changed it
29 to make it a little easier to access. It will also show the user what is coming, as well
30 as past webinars.

31 Mr. Tannahill mentioned they are posting some of the webinars on YouTube and
32 they range between 122 to 937 views. There was a big jump in the number of
33 viewers, but it's something that a lot of people are not aware of yet. He informed

1 the Committee that they are considering doing some additional fliers and
2 notifications.

3 Mr. Tannahill presented the list of topics that was put together and separated into
4 two sections: Inspection Services Unit (ISU) and BSU. Currently, both ISU and
5 BSU are short staffed and looking for this committee to help contribute. He would
6 like to get the committee back involved and encouraged all to not only assist in the
7 decision making on topics but also with developing presentations.

8 Mr. Hooper asked if the list they were provided mimics the list Mr. Tannahill was
9 presenting. Mr. Tannahill stated his presentation is more extensive.

10 Mr. Yu reminded the committee that Mr. Tannahill's presentation is different from
11 the list that was distributed to the committee and is a separate agenda item.

12 Pete Kreuser asked if in observation of the aforementioned list of topics, there was
13 an expectation/prioritization of the list; if the goal is to have six webinars between
14 now and the end of year.

15 Mr. Hooper responded that the intent was to go through the list, send out the
16 suggested educational topics, and post them on the website for the public to
17 observe as well, then discuss such topics and determine which ones OSHPD
18 should proceed with and any involvement that they would like the committee to
19 take as well. Thereafter, go into a development phase on exactly who would do
20 what, set timeframes, etc. Mr. Hooper mentioned that was his vision and
21 expressed interest in any other suggestions from the committee members and the
22 public.

23 Bill Zellmer agreed all the topics are good ones and for the need to go through all
24 of them starting with those of highest priority first.

25 Mr. Hooper explained the reason why he is doing this is because the public and
26 the committee had not seen this presentation slide until now. Therefore, the need
27 to go to the next agenda topic is pertinent because the list should have been
28 reviewed by the committee and the public.

29 **4. Future Educational Webinar Opportunities**

30 Facilitator: Mike Hooper, Chair (or designee)

31 Mr. Hooper provided members of the committee and public with an update on the
32 list that was prepared by Joe LaBrie, ISU Supervisor, Richard Tannahill, and Nanci
33 Timmins, Chief Fire Life Safety Officer, and Roy Lobo, Principal Structural

1 Engineer. Mr. Hooper explained that the full list was compiled from all the
2 suggestions made by past webinar and seminar attendees.

3 Mr. Hooper expressed his appreciation for Joe LaBrie and the ISU because he felt
4 that they have been addressing many of the topics on the list already. He
5 acknowledged that he approached the list from an inspector's perspective and that
6 one theme he hears frequently in the field, especially from new Inspectors of
7 Record (IORs), is difficulty understanding all documentation that is required by
8 OSHPD field staff. Mr. Hooper provided real-life examples of things new IORs have
9 trouble with, such as Request for Information Forms and who is responsible for
10 them, who is supposed to present Amended Construction Documents, and what
11 their role is during special inspections. He said another important topic on the list
12 is Emergency Projects and Other Field Observed Conditions, not only for the IORs
13 but for the field staff who are seeing the same mistakes repeatedly.

14 Mr. Hooper moved to open up review and discussion of the list of suggested
15 educational topics to the rest of the committee.

16 Bill Zellmer expressed that accessibility and path of travel can potentially account
17 for 20% of a project's budget, and since OSHPD is close to issuing the latest CAN
18 2-11B for the 2019 codes cycle, one of his top three topics is Accessibility in
19 Healthcare.

20 Bruce Macpherson agreed with Mr. Zellmer that accessibility is always a good topic
21 for discussion because it must be addressed on every project and the more
22 education on it, the better. Mr. Macpherson went on to select Emergency Design
23 Guide, and California Administrative Code (CAC) and OSHPD as his top two
24 topics.

25 Mr. Kreuser asked if the Emergency Projects and Other Field Conditions topic was
26 the same as the Emergency Design Guide topic. Paul Coleman answered that they
27 are related but that one has to do with the field side of emergency projects and the
28 other one from the plan review side. Mr. Coleman explained that the intent was to
29 attack it from two different viewpoints depending whether the project is under
30 construction.

31 Louise Belair stated that her understanding is that the Emergency Design Guide
32 is related more to emergency events than to emergency projects. Mr. Coleman
33 stated that there was an Emergency Design task force that worked on what
34 impacts disasters such as pandemics, wildfires, and earthquakes have on hospital
35 design and is a part of the Emergency Design Guide as well.

1 Mr. Kreuser's last pick was the OSP: Process, Requirements, and Equipment
2 Anchorage. He expressed that in his experience with vendors no one has a clear
3 understanding of what the process is, why it is in place and why getting their
4 equipment ready should be so hard. Mr. Tokas expressed that perhaps it was time
5 to "dust off" the 2007 presentations that OSHPD made to industry and acquaint
6 the new generation to the process.

7 John Donelan stated that all the topics are very important, but felt that many topics,
8 such as Skilled Nursing Facilities, Psychiatric Hospitals, and even Fire Separation
9 Requirement for 1R Buildings, are so specialized that although there's a need for
10 them, it is not universal. Mr. Donelan went on to express his agreement with Mr.
11 Zellmer about the importance of the Accessibility in Healthcare topic and the need
12 for an updated Accessibility CAN. He shared that when he left OSHPD and worked
13 as a Fire Marshall for the University of California, 30 percent of his time was spent
14 answering accessibility questions.

15 Mr. Tokas stated that the Accessibility CAN 2-11B is very close to being completed
16 and that OSHPD will be ready to schedule webinars soon after it is. Mr. Tannahill
17 concurred and indicated that the presentations are done and ready to go as soon
18 as the CAN is done. They just need a final review and few minor tweaks to make
19 sure they are in alignment. He added that the presentations are actually very close
20 to Mr. Zellmer's program.

21 Ms. Belair commented that she liked the way the list was organized by unit and
22 that each section has at least one key topic that addresses the items that were
23 discussed previously. She agreed with Mr. Donelan that some of the topics are
24 very narrow. Since all the topics were suggested by the public, Ms. Belair wanted
25 to know if it was possible to have a webinar that would address each unit and
26 therefore each of the topics listed, so as to not leave out any topics. She suggested
27 possibly breaking out into more specific training for some of the topics that might
28 deserve more time.

29 Joe LaBrie explained that the list being presented was created by combining all
30 the topics suggested by the public with all of the personal observations made within
31 each unit, then distilled into a list of the most logical and highest priority items
32 observed by OSHPD and recommended by the public. Mr. LaBrie then asked the
33 Committee for direction on how the training should be rolled out.

34 Ms. Belair explained that her thought was to address each of the sections
35 individually; perhaps creating longer webinars to address each of the topics. She
36 also mentioned that perhaps there was a need to begin planning an in-person
37 seminar now that everything has started opening back up. Ms. Belair noted that

1 there needs to be a timeline developed to know which of the sections has the most
2 pressing need for training.

3 Bert Hurlbut expressed his agreement with Mr. Zellmer on the importance of
4 accessibility training and also with Mr. Kreuser and Mr. Tokas on the need to
5 educate the new generation on the OSP Process.

6 Mr. Hooper asked Ms. Timmins what format she envisioned her topics being
7 presented and she stated that some topics could be given in a short, 15-minute
8 session but others would require more time, such as the topic related to fire alarm
9 testing requirements. She indicated that there are a lot of guide lists available
10 online that could potentially be turned into their own webinar topics.

11 Mr. Tannaill brought up that many of the topics are already being addressed on an
12 ongoing basis by each unit. ISU, BSU and FPU have ongoing webinars and
13 continuing outreach. He explained that what OSHPD is hoping to get from the
14 Committee is participation as well as input to create a training opportunity that is
15 exciting and that people will want to attend and listen to. Mr. Tannaill mentioned
16 that the seminars of the past were always so well received, and he wants to see
17 that level of participation and engagement again.

18 Mr. LaBrie remarked that when members of the industry hear fellow industry
19 leaders are involved in the presentation material, it adds an additional level of
20 importance and value that people appreciate. He added that the messaging that
21 comes solely from OSHPSD is good and important, but the value of Committee
22 involvement and the messaging that goes with a presentation that is put on by
23 OSHPD and HBSB, should not be underestimated.

24 An Interested Party asked the Committee to comment on the confusion on the part
25 of the facilities when selecting equipment to meet the various structural sections
26 of the code; facilities are not looking for OSPs until late in their projects. Mr. Tokas
27 responded by saying that although the OSP program has not changed since it was
28 implemented in 2005, he recognized that there a lot of new players in the industry
29 now and that OSHPD will take on the task of putting together a new set of seminars
30 that will hopefully illustrate some of the misconceptions and whatever questions
31 are out there regarding OSP.

32 Deepak Dandekar made a couple of suggestions to OSHPD. The first one was to
33 make clear when/if a presentation has changed since the last time it was given
34 because someone may not attend a webinar thinking they have already taken it
35 before, and not realize that new material has been added since the last time the

1 session was offered. Mr. Dandekar's second suggestion was to put the word out
2 to the industry about all of the checklists that are available on the OSHPD website
3 for many of the processes that are required on a project. Mr. Tannahill addressed
4 Mr. Dandekar's suggestion by revealing that BSU is working with Mr. Yu's staff to
5 send out an email blast to listserv subscribers whenever a new CAN, PIN or Guide
6 is made available online.

7 After further discussion, Committee members agreed in assisting with the
8 development, materials, and participation in future educational webinars by
9 bringing their expertise to specific topics.

10 Action Items

11 Topics and volunteers:

- 12 • Bruce Macpherson:
 - 13 ○ OSHPD 3
 - 14 ○ Accessibility in Healthcare
 - 15 ○ California Administrative Code and OSHPD
 - 16 • Louise Belair:
 - 17 ○ OSHPD 3
 - 18 ○ Emergency Design Guide
 - 19 ○ Owner, IOR, DPOR, GC, LAB: Personal Knowledge,
20 Duties, and Responsibilities During Construction
 - 21 • Bill Zellmer:
 - 22 ○ Accessibility in Healthcare
 - 23 • Bert Hurlbut:
 - 24 ○ OSP: Process, Requirements, and Equipment
25 Anchorage
 - 26 • Pete Kreuser:
 - 27 ○ Emergency Projects and Other Field Observed
28 Conditions
 - 29 ○ Integrated Review PIN 50
 - 30 ○ Emergency Design Guide
 - 31 ○ OSP: Process, Requirements, and Equipment
32 Anchorage
 - 33 • Mike Hooper:
 - 34 ○ Any ISU topics
 - 35 • Gary Dunger:
 - 36 ○ Any FPU topics
- 37

- 1 • John Donelan:
2 ○ Any FPU topics

3 Cesar Ponce asked that any Committee member who would like to volunteer to
4 help ISU with presenting on a specific topic, to please reach out to
5 OSHPD.FDDISU@oshpd.ca.gov.

6 Mr. Hooper asked who the technical leads will be on the OSHPD side and Mr.
7 Tannahill responded that each unit supervisor will be the technical lead for their
8 respective topic and the technical leads will reach out to each volunteer to
9 coordinate the collaboration. Mr. Hooper asked if Committee members can do
10 the work outside HBSB and begin working on developing their topic
11 presentations individually with OSHPD technical leads. Mr. Tokas responded in
12 the affirmative.

13 Mr. Hooper concluded agenda item 4 by clarifying that OSHPD technical leads will
14 reach out to the Committee member volunteers and work on the presentations
15 outside of the Committee meetings. Richard affirmed that was correct.

16 **5. Comments from the Public/Committee members on issues not on this**
17 **agenda**

18 Facilitator: Mike Hooper, Chair (or designee)
19

20 Mike Hooper opened for comments from committee members, and the public on
21 matters to be considered at next board meeting. No issues arose and the
22 committee meeting adjourned at 10:38 am.



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hcai.ca.gov



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

**Thursday, October 13, 2021
9:00 a.m. - 3:00 p.m.**

**Teleconference Meeting Access:
HBSB GoToMeeting EO Committee
Access Code: 442-945-813**

Committee Members Present:

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

HCAI Staff Present:

Elizabeth Landsberg, HCAI Director
Chris Tokas, Acting FDD Deputy Director
Monica Colosi
Bill Gow
Joe LaBrie
Cesar Ponce
Diana Scaturro
Richard Tannahill
Nanci Timmins
James Yi, HCAI Attorney

Consulting Members:

John Donelan
Gary Dunger
Bill Zellmer

HBSB Staff:

Ken Yu, Executive Director
Joanne Jolls
Evetts Torres

1 **1. Welcome and Introductions**

2 Louise Belair, Vice-Chair, called the meeting to order on October 13, 2021, at 9:00 a.m.,
3 and HBSB Executive Director, Ken Yu. called roll.

4
5 Five members of the Committee present constitute a quorum. There being six present
6 at the time of roll, a quorum was established.

1 Mr. Yu read the public announcement regarding COVID-19, OSHPD officially becoming
2 the Department of Healthcare Access Information (HCAI) and meeting rules and
3 procedures.

4 **2. Review and approve the July 14, 2021, draft meeting report/minutes**

- 5 • Discussion and public input

6 **Presenter:** Louise Belair, Acting Chair

7 **Discussion and public Input**

8 **MOTION:** [Zellmer/Rainey]

9 The Board voted to accept July 14, 2021 draft Meeting Report/Minutes as presented.

10 **Information item and Action Item**

11 None.

12 **3. Facilities Development Division's educational webinar update**

- 13 • Discussion and public input

14 **Presenter:** Richard Tannahill, HCAI

15 **Discussion and public Input**

16 Mr. Rainey asked where FDD needed assistance. Mr. Tannahill stated the need for
17 assistance with developing content and presentation.

18 **Information item and Action Item**

- 19 • None.

20 **4. Future educational opportunities**

- 21 • Planning and development of the suggested educational topics agreed to during July
22 14, 2021 committee meeting:
 - 23 a. Accessibility in Healthcare
 - 24 b. California Administrative Code
 - 25 c. Emergency Projects, Design Guide
 - 26 d. OSHPD 3 and OSHPD Special Seismic Certification presentation
 - 27 e. Inspection Services Unit and Fire Prevention Unit topics
- 28 • Discussion and public input

29 **Presenter:** Richard Tannahill, HCAI

30 **Discussion and public Input**

31 Ms. Belair asked Mr. Tannahill if there was anything additional that FDD needs help with
32 concerning accessibility healthcare webinars. Mr. Tannahill indicated they do not need

1 anything additional, disclosing that the CAN is in PowerPoint form and is in the proofing
2 process with a tentative presentation date of January 6, 2022.

3
4 Ms. Belair then asked Mr. Tannahill if there is anything specific FDD needs help from
5 this committee regarding the California Administrative Code webinar. Mr. Tannahill
6 stated he needs a partner to help present highlights of the California Administrative
7 Code (CAC). Former Board Member, Bruce Macpherson, was originally signed up to
8 assist with this topic and Scott Mackey noted that since he has taken over Mr.
9 Macpherson's role on the Committee, he would be happy to partner with Mr.
10 Macpherson on this webinar. Mr. Tannahill indicated that the goal for the CAC webinar
11 March/April 2022.

12
13 Ms. Belair moved on to the next webinar topic on the list, PIN 50. Mr. Tannahill stated
14 that PIN 50 has changed considerably. Collaborative Review and Phase Review has
15 been integrated into a single review called Integrated Review. He remarked that
16 although PIN 50 has been available for a while, it has not been presented to the public
17 in that format and many of the concepts have been merged. He announced that the
18 target date for the webinar is April/May 2022. Ms. Belair noted that Pete Kreuser, who
19 represents the construction side, volunteered to help with this topic. She asked if having
20 someone from the design side, or each aspect of the industry would be helpful. Mr.
21 Tannahill acknowledged that it would be a good idea and stated they could reach out to
22 some of the teams doing them to see if there could be a more recent case study. Mr.
23 Rainey requested to be notified should help be needed. Ms. Belair mentioned they'll be
24 limited to the number of committee members that can participate because of Bagley-
25 Keene and suggested reaching out to other public members. Mr. Tannahill stated that
26 there is a limit of one and a half to two hours with the webinars, and he would welcome
27 another participant.

28
29 Ms. Belair moved onto the next topic, Emergency Design Guide. Mr. Tannahill noted
30 that the Guide is not yet completed and that hopefully by the time it is, the webinar will
31 be ready to present. He stated the timeframe is around mid-summer 2022. Ms. Belair
32 inquired if this topic is different from "Emergency Projects." Mr. Tannahill clarified that
33 although Emergency Design Guide will address emergency projects, and how to access
34 HCAI and how to get emergency work completed, it is not specific to emergency
35 projects.

36
37 Bill Zellmer shared an example of a hospital with a burst pipe, and water everywhere.
38 The facility would consider that an emergency, but the question arises about what to do
39 and what actually constitutes an emergency. He continued that a chapter on that type of
40 situation to provide clarity would be appreciated.

1 Mr. Tannahill confirmed that the Design Guide itself will be to prepare for emergencies.
2 There were complaints from facilities that didn't know who to contact when the
3 pandemic hit. The idea of this guide is for a facility to prepare for a larger type of
4 emergency, and even though it will provide some guidance, standalone webinars on
5 emergency projects could be beneficial.

6
7 Ms. Belair added that other types of emergency projects, i.e., repairing a pipe or a piece
8 of equipment, were considered more maintenance related projects. Mr. Tannahill
9 explained that emergency projects is a good topic but does not want to confuse it with
10 emergency design guide because they are two very different things. The guide is to
11 better prepare facilities for emergencies such as pandemics, wildfires, and earthquakes.
12 Mr. Mackey suggested adding "preparedness" to the name.

13
14 Mr. Dandekar stated that "preparedness" suggests prospective design work. It's not
15 reactive to say, a pandemic, but instead to situations that facilities could anticipate.

16
17 Ms. Belair asked Mr. Tannahill if either seminar with a panel discussion or a standard
18 webinar would be most adequate to cover the Emergency Design Guide topic? He
19 responded that it hasn't been decided yet but that a panel discussion could be
20 considered. He suggested getting together with Ms. Belair and Mr. Kreuser to help
21 prepare it and decide the direction and format. Mr. Tannahill added that the hope was to
22 have the webinar or seminar at the same time that the final Guide is rolled out. He and
23 Ms. Belair both agreed that having some of the members from the Design Guide Task
24 Force participate in the panel discussion would be beneficial.

25
26 Ms. Belair moved onto the next topic on the list, OSHPD 3 and OSHPD Special Seismic
27 Certification Presentations. Mr. Tannahill stated that OSHPD 3 is already done. Ms.
28 Belair called on Bert Hurlbut to provide information regarding OSHPD Special
29 Certification Presentations. Mr. Hurlbut commented that what he found while working on
30 the Stanford project was that OSP equipment often did not match the lines of the design
31 drawings perfectly in length, weight, or height. Mr. Hurlbut stated that he was going to
32 reach out to Joe LaBrie to run some suggestions by him and put this topic back on the
33 list at a later date.

34
35 Ms. Belair asked if it was a result of not understanding the process properly. Mr. Hurlbut
36 stated he thought the problem is that every project is specific and manufacturers are not
37 having every size of their equipment tested and therefore their submittals don't match
38 the OSP.

39
40 Mr. Tokas noted that the requirements are clear and explicit and HCAI would be happy
41 to put together a presentation that will further illuminate how the seismic certification

1 works. Mr. Tokas, Mr. LaBrie, and Mr. Tannahill agreed that all associated FDD units
2 would be part of the production and the decision about who would present it would be
3 made later.

4
5 Ms. Belair asked for clarification on whether it's called OSHPD Special Seismic
6 Certification or HCAI Special Seismic Certification. Mr. Tannahill stated that in this case,
7 it is still OSHPD Special Seismic Certification because it is in the Code that way and the
8 name will remain until it is changed in the Code.

9
10 Ms. Belair moved onto the next topic, Inspection Services Unit (ISU). She asked Cesar
11 Ponce to speak on behalf of ISU. Mr. Ponce announced ISU is currently working on a
12 presentation on the TIO changes, sample projects and how to fill out the TIO form and
13 they anticipate having the initial draft finished by early 2022. Ms. Belair asked if ISU
14 needs any help from the committee regarding the draft TIO presentation. Mr. Ponce
15 replied that they are working on the initial draft and once completed, feedback from the
16 Committee will be important as it gets closer to the final product.

17
18 Mr. Tannahill mentioned that Mike Hooper volunteered to help with the next item on the
19 list, Field Visit Requirements. Mr. LaBrie stated that that topic falls under the purview of
20 ISU. Mr. Ponce reported that he would reach out to Mr. Hooper to collaborate on
21 developing an outline and begin working on that topic presentation.

22
23 Ms. Belair moved onto the next topic on the list which was Owner, IOR, DPOR, GC. Mr.
24 Tannahill and Ms. Belair agreed that the topic was about the roles and responsibilities of
25 each one during construction. Monica Colosi disclosed that ISU presented three
26 different Field Brief Advice sessions on the responsibilities of owners, DPORs and
27 IORs. She mentioned that ISU could re-present the webinars because they are open
28 mic which allows for public interaction with the presenters. Mr. Tannahill commented
29 that perhaps this topic could be combined with Field Visit Requirements and that the
30 Building Standards Unit would support ISU in the production and presentation. Mr.
31 LaBrie indicated that the target date for the webinar is summer 2022.

32
33 Ms. Belair moved onto the next topic, Fire Prevention Unit. Nanci Timmins remarked
34 that the list of FLS topics that are requested is very long and includes systems like
35 generators and fire alarms as well as general refresher topics such as wall types. Gary
36 Dunger opined that although the list is vast with good topics, it would make sense to
37 focus on the topics that apply to a broad audience and are common to every project,
38 like fire resistive construction means of egress, suites, medical gases, etc. Mr. Tannahill
39 suggested spreading the list of topics out throughout the year between some of the
40 others and limiting presentations to two hours.

41

1 **Information item and Action Item**

- 2 • None

3 **5. Committee goals for 2022**

- 4 • Discussion goals for the committee in the coming year
5 • Discussion and public input

6 **Presenter:** Richard Tannahill, HCAI

7 **Discussion and public Input**

8 Mr. Tannahill noted that the hope is to go back to in-person seminars in 2023 and to
9 keep in mind that seminars take about a year to prepare and to think about topics for
10 that.

11

12 Mr. Tokas stated that the workload from this committee as far as education, outreach
13 and training is really heavy. The Committee is delivering a valuable service to our
14 constituency, and the topics selected are very pertinent. Mr. Tokas noted that the topics
15 need to be presented not only to our “regulars” but to those who need it the most but do
16 not typically attend. He suggested to the Committee to commit to doing outreach
17 because although there are over 6,000 people on HCAI’s ListServ, the message is not
18 reaching everyone. Mr. Tokas disclosed that ISU’s 30-minute webinars will serve as
19 advertising; spread the word to increase the knowledgebase.

20

21 Mr. Dunger suggested doing another survey and asking for input as to what sort of
22 educational topics would be of value to the rest of the people that are not on this
23 Committee. Mr. Tokas commented that the list presented today was compiled from
24 public feedback but that it would not hurt to put together another survey.

25

26 Mr. Yu announced that there was a comment in the chat box from Theresa from AIA
27 Academy of Architecture for Health Central Valley stating that to Chris Tokas’ point
28 about outreach, AIA AAH is willing to assist with spreading the word on their social
29 media platforms and websites. Mr. Tokas expressed his appreciation.

30

31 Ms. Belair questioned if there is any specific material that could be developed and used
32 to promote those Mr. Tokas responded that a list of items need to be put together and
33 sent out to the various mediums. He explained that as the committee starts reviewing
34 the specifics of the topic and developing the content, there will need to be specialized
35 outreach messages detailing the specifics of the webinar/seminar, sent out to the public
36 at regular intervals to help build anticipation.

37

1 Mr. Tokas remarked that ISU’s webinar model contains all the components that great
2 educational programs incorporate. He cited that they are well attended, there’s
3 regularity, anticipation, and discussion. Mr. Tokas suggested the Committee might
4 consider taking one “grandiose” topic, develop it to its fullest extent, then use the
5 webinar model that the ISU is using and chop it up into small sections, given regularly
6 and provide an opportunity for discussion.

7
8 Mr. Dunger suggested doing some webinars outside of business hours like early
9 morning, evening or even Saturday sessions to get a better outreach from those who
10 cannot attend during the workday, like IORs. Ms. Colosi acknowledged that could be
11 considered.

12 **Information item and Action Item**

13 Goals for 2022:

- 14 ○ Deliver on the topics covered in Item 4
- 15 ○ Prepare a seminar for 2023
 - 16 ■ Identify the topic
 - 17 ■ Prepare content
- 18 ○ Outreach to industry members to advertise webinars
- 19 ○ Survey the public again on topics of interest
- 20 ○ Consider developing one “grandiose” topic to be delivered throughout the year

22 **6. Comments from the Public/Board Members on Issues Not on This Agenda.**

- 23 • None.

24 **7. Adjournment**

25 Ms. Belair adjourned the meeting at approximately 10:29 a.m.

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Codes and Processes Committee

Draft Meeting Report/Minutes

September 23, 2021



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OSHPD Office of Statewide Health Planning and Development

Hospital Building Safety Board

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HOSPITAL BUILDING SAFETY BOARD Codes and Processes Committee

Thursday, September 23, 2021
9:00 a.m. - 3:00 p.m.

Teleconference Meeting Access:
[HBSB GoToMeeting APCCSD Committee](#)
Access Code: 296-431-085

Committee Members Present:

Michael O'Connor, Chair
Roy Lopez, Vice-Chair
Louise Belair
Gary Dunger
Mike Hooper
Scott Jackson
Pete Kreuser
Michele Lampshire
Scott Mackey
Jim Malley
Farzad Naeim
Michael O'Connor

Consulting Members:

John Donelan
Gary Dunger
Mark Hershberg

OSHPD Staff Present:

Elizabeth Landsberg, OSHPD Director
Chris Tokas, Acting FDD Deputy Director
Arash Altoontash
Richard Tannahill
Brett Beekman
Chris Dickey
Mickey Fong
William Gow
Roy Lobo
Dave Mason
Diana Navarro
Diana Scaturro
Carl Scheuerman
Richard Tannahill
Nanci Timmins

HBSB Staff:

Ken Yu, Executive Director
Joanne Jolls
Evet Torres

- 1 **1. Welcome and Introductions**
- 2 Michael O'Connor, Committee Chair, called the meeting to order on September 23, 2021, at
- 3 9:00 a.m. and HBSB Executive Director, Ken Yu called roll.

1 Twelve members of the Committee present constitutes a quorum. There being twelve present
2 at the time of roll, a quorum was established.

3

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

5 **2. California Building Standards Code Revision Cycle for 2022**

- 6 • Update on code cycle status

7 **Presenter:** Richard Tannahill, OSHPD

8 **Discussion and public Input**

9 Bill Zellmer asked if anything changed since the Committee last saw the code. Mr. Tannahill
10 stated that nothing had changed and that the Committee had been informed of all updates.

11 **Information item and Action Item**

12 None.

13 **3. Emergency Design Task Force**

- 14 • Update from Emergency Design Task Force to address the approach design and regulatory
15 concerns during emergency events

16 **Presenter:** Chris Tokas and Richard Tannahill, OSHPD

17 **Discussion and public Input**

18 Mr. O'Connor asked if item 1, Patient Room Ventilation, was about outside air or conversion to
19 negative pressure. Mr. Tannahill replied that it was about converting patient rooms and even
20 entire departments, into a negative environment. He noted that there are projects coming in
21 requesting to keep their temporary measures in place so that in the future, they could more
22 readily adapt. Mr. Tannahill reported that facilities are putting in big exhaust fans and things that
23 are more infrastructure related.

24

25 Ms. Belair asked for confirmation that the Emergency Design Guide would not be replacing
26 code language. Mr. Tannahill assured it is not and that this will be a guide for best practices to
27 better prepare. What they did look at was if there would be any code changes required. Ms.
28 Belair questioned if there was anything being proposed in the emergency design guide that
29 conflicts with code requirements. Mr. Tannahill replied yes, because negative patient rooms are
30 not allowed in the Code but the Emergency Design Guide will provide guidance on how to
31 expedite the process to get the AMC approved. He stated that OSHPD will provide optional
32 language later where an AMC will not be required.

33

34 Ms. Belair questioned if the changes to the NPC 5 requirements will be addressed in the
35 Emergency Design Guide, specifically relating to the emergency water storage. Mr. Tannahill
36 stated this is being addressed at a different committee at a different level and that Ali Sumer, as
37 the head of that Committee, is working on the NPC revisions. That will be a code change in the
38 future, but it will not be part of this guide. It will be actual requirements for preparedness
39 primarily for earthquakes and other events. Ms. Belair asked if there is any information available
40 regarding what is being changed to NPC 5, what is being considered or proposed so that a

1 designer who is working on a hospital replacement or master planning can help guide the
2 process. Mr. Tokas responded that the NPC 5 requirements remain as they are today. He
3 stated that they are lower than the national standards and facilities should be planning with what
4 is in the code today. Mr. Tokas indicated that there are allowances for alternate methods of
5 compliance because they are performance based and those requirements can be utilized today.
6 He mentioned that CDPH also has requirements regarding emergency water storage
7

8 Mr. Hooper asked Mr. Tannahill what type of case studies he is looking for. Mr. Tannahill
9 responded they are seeking creative solutions that a facility or a department is doing to prepare
10 for emergencies such as a surge, or wildfires. He expressed that if anyone sees or hears of a
11 facility doing something or even just talking about doing something to prepare for an
12 emergency, OSHPD would be interested in working with them.
13

14 Pete Kreuser noted that he would be able to provide case studies.

15 **Information item and Action Item**

- 16 • None

17 **4. OSHPD Preapproved Details (OPD)**

- 18 • Discussion and review of candidate details for OPD program

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

20 **Discussion and public Input**

21 Mr. Kreuser asked how the Committee would categorize the details. Mr. O'Connor suggested
22 that a good start would be to categorize the major disciplines first (e.g. Structural, Mechanical,
23 Electrical, and Fire Life Safety), then look at subcategories as we start to get bigger groupings,
24 and hopefully correlate our numbering system with that.
25

26 Mr. Hooper asked if there was any thought given to starting off with updating the details that
27 OSHPD already has. Mr. O'Connor acknowledged this is an extension of the program, not a
28 reinvention and that what might be most useful to the Committee would be to find out from
29 OSHPD what percent of projects use the details successfully, because there is no reason to
30 keep loading up the details if they are not being utilized. Mr. Tannahill concurred that it would be
31 a great opportunity not only to filter through the details OSHPD already has but to update them
32 to current code.
33

34 Mr. Hooper asked if there was a way to catalogue all the current details and keep track of new
35 ones to ensure no one is doing duplicate work. Mr. O'Connor agreed and disclosed that he
36 wanted today's focus to be more on tracking details than on the details themselves. He
37 suggested implementing a collaborative tracking system for existing and future details that
38 would allow assignments of detail numbers and categorizing the details. He explained that it
39 could help track the date received, date issued, as well as which code cycle. Mr. O'Connor
40 suggested creating subcommittees, each one made up of one Committee member and one
41 OSHPD representative, to organize and track the different categories of details and provide
42 updates and feedback on an ongoing basis and as efficiently as possible.

1 Mr. O'Connor pointed out the current list is lacking details under the mechanical category and
2 Ms. Belair stated one of the items that comes up a lot is the connection to the terminal units on
3 the water side. Mr. O'Connor concurred that should be number one on the list.

4
5 Mr. Dunger stated that in looking at the flowchart, it lends itself to an ongoing process where
6 these pre-approved details are being reviewed regularly, then published. He added that
7 seemed contrary to how they have been done in the past. Mr. O'Connor clarified that the earlier
8 process was batch focused, where HBSB and OSHPD spent a lot of time in getting it off the
9 ground with the partition and ceiling details. He explained that got the program going but since
10 then, there has been very little added. Mr. O'Connor indicated that the Committee was charged
11 with setting up the process, working jointly with OSHPD on getting more details produced, and
12 monitoring the success of the program by whether these details are being used effectively, in
13 hopes of assisting the plan checking, field staff, and design community.

14
15 Mr. Dunger continued for historical perspective; the charge of the Committee was to come up
16 with a group of details that were common on every single project. Mr. O'Connor concurred
17 stating the focus would be on details with the most common denominators and used with the
18 highest frequency.

19
20 Mr. Tokas expressed his admiration of the vision and goals but noted that the current focus
21 should be on skilled nursing facilities, specifically details for the framing and for fire life safety.

22
23 Mark Hershberg stated that the effort related to the code justification, in terms of structural,
24 required extensive calculation and drafting efforts. He asked if that was expected to be taken on
25 by the party advocating for a detail, or by the Committee. Mr. Tokas replied that it would depend
26 on the volume and the complexity of the details. He added that the focus should be on collecting
27 and defining those details, and OSHPD will worry about how to produce them. Mr. Hershberg
28 continued, stating that originally there was a design entity that was commissioned by OSHPD.
29 Brett Beekman noted that the work previously was for structural review, and that at the time,
30 they did have retainer contracts for structural contract-out reviews, but when talking about other
31 disciplines, that doesn't exist. Mr. O'Connor responded that he does think they will need that
32 sort of collaboration on the other disciplines as well, but that it may take less resources to help
33 with some of the fire life safety and other details than the effort that was needed previously.

34
35 Ms. Timmins commented that in terms of updating existing details, it could be a simple fix
36 because the fire life safety details shouldn't change drastically between code editions so a note
37 could be added, much like what is done for the PINs and CANs, stating that it is valid until
38 rescinded. She added that if it changed later, the detail could be removed or updated at that
39 time.

40
41 John Donelan indicated that some of the details would have to be noted on the spreadsheet as
42 being good for hospitals (OSHPD 1) or good for SNFs because when you get into the structural,
43 there could be quite a difference between what would be appropriate for a wood-framed hospital
44 than for a wood-framed SNF.

1 Mr. O'Connor asked if there was any objection to the idea of having smaller task force,
2 addressed by discipline, to help move the process through.

3

4 Mr. Mason suggested that there's an easy way to standardize the ventilation table that is
5 thorough and applicable for sufficient analysis to get the work done. He added that OSHPD has
6 two good mechanical details that are potentials so far.

7

8 Mr. Beekman noted that some of the details presented were product-specific and asked if those
9 would be adjusted. Mr. O'Connor confirmed and stated there will be a struggle on the table
10 support systems.

11

12 Mr. Hooper questioned if they would be open to people submitting details to the Committee for
13 review. Mr. O'Connor stated he would be open and that it would probably help get the best
14 details.

15 **Information item and Action Item**

- 16 • None

17 **5. Committee goals for 2022**

- 18 • Discuss goals for Committee in the coming year

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

20 **Discussion and public Input**

21 Ms. Belair asked if any topic takes priority over any other or if the list is still accurate. Mr.
22 O'Connor acknowledged the emphasis on SNFs signifies it is a top priority. Mr. Tokas agreed.

23

24 Bill Zellmer brought up a topic that he wasn't sure was part of the behavioral health code
25 analysis or not, but chemical dependency recovery hospitals, CDRHs, are very confusing and
26 the guidelines, rules, and codes that govern are unclear. He disclosed that he would like
27 clarification for the whole arena of chemical dependency to be considered. Diana Navarro
28 stated that she is on the Acute Psych Hospital Guidelines Task Force and does not believe this
29 is currently being addressed but that she will bring the issue back to the Committee.

30 **Information item and Action Item**

- 31 • None.

32 **6. Comments from the Public/Board Members on Issues Not on This Agenda.**

- 33 • None.

34 **7. Adjournment**


35 Mr. O'Connor adjourned the meeting at approximately 10:24 a.m.

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Energy Conservation and Management Committee

Draft Meeting Report/Minutes

October 7, 2021



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



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

**Thursday, October 7, 2021
 9:00 a.m. - 3:00 p.m.**

Teleconference Meeting Access:
[HBSB GoToMeeting ECM Committee](#)
 Access Code: 917-826-381

Committee Members Present:

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

HCAI Staff Present:

Elizabeth Landsberg, HCAI Director
 Chris Tokas, Acting FDD Deputy Director
 Bill Gow
 Dave Mason
 Diana Scaturro
 Jamie Schnick
 Richard Tannahill
 Nanci Timmins
 Arash Altoontash

Consulting Members:

John Griffiths
 Eric Johnson
 David Lockhart

HBSB Staff:

Ken Yu, Executive Director
 Joanne Jolls
 Evett Torres

Other(s) Present:

Dan Diehl, CEO of Aircuity
 Jeni Stockman, Macro-Eyes, Inc.

- 1 **1. Welcome and Introductions**
- 2 Mr. Lopez, Committee Chair, called the meeting to order on October 7, 2021, at 9:00 a.m., and
- 3 HBSB Executive Director Ken Yu called roll.
- 4
- 5 Nine members of the Committee present constitute a quorum. There being nine present at the
- 6 time of roll, a quorum was established.

1 Mr. Yu read the public announcement regarding COVID-19, OSHPD officially becoming the
2 Department of Health Care Access and Information (HCAI) and meeting rules and procedures.

3 **2. Indoor Air Quality Monitoring**

4 **Presenter:** Dan Diehl, CEO of Aircuity

5 **Discussion and public Input**

6 Mr. Dandekar stated the implications of COVID 19 regarding the detected parameters of
7 selected airborne pathogens and its challenges of swab tests (i.e., go to the labs and so forth).
8 He explained that it would be incredibly beneficial if certain pathogens that are commonly
9 present, such as Aspergillus, could be detected, and in the future, it can be fine to go further.

10 Mr. Diehl responded they were looking from a product roadmap perspective and intrigued by the
11 HVAC design perspective. They pull air samples from each individual location, then run it
12 through a filter that could then be tested randomly. He also reported that the best thing that can
13 be done is to control small particle levels, ensuring that 0.3 to 2.5-micron particle levels are
14 reduced as effectively as possible, and the second thing is managing higher ventilation rates.
15 There may be dead spots or a ventilation supply and demand that doesn't cause proper mixing
16 and exhaustive air. Mr. Diehl declared a need to start treating the larger built environment as a
17 critical environment, making it safer, more productive, and healthier for the occupants and
18 ventilation effectiveness is going to be key and part of particulate measurement and mitigation.

19

20 Dave Mason expressed that relative humidity and airborne pathogens are important. Studies in
21 China have found that when somebody coughs or sneezes indoors with COVID, they found it 27
22 feet away because it is traveling as such small particles. He suggested to keep in mind that
23 CMS funding is tied to minimum ventilation standards based on 2008 ASHRAE 170 and to
24 change that takes an act of Congress. Mr. Mason also pointed out that in talking about
25 ventilation being an energy consumer, the real energy consumer is the natural gas being spent
26 on reheat; it's about a third of the energy cost for hospitals in California. He promoted looking at
27 solar thermal for reheat, especially in terms of carbon in the atmosphere,

28

29 Mr. Diehl highlighted they are working on seven buildings for Takeda Pharmaceuticals currently.
30 One of the major benefits from laboratories is when you reduce air change rates, reduce reheat
31 because you're not over-cooling the spaces, you're not providing 55-degree air to space and six
32 air change rates and then having to heat it to maintain temperature. Many of the projects almost
33 eliminate reheat by eliminating lowering air change rates and dynamically controlling it. As
34 customers look to provide building a net-zero, many customers are going to go to electric heat
35 sources, which has other design considerations.

36

37 Mr. Diehl disclosed that Aircuity is doing seven buildings for a pharmaceutical company and one
38 of the major benefits of laboratories is that when air changes are reduced, so is reheat. In some
39 cases, customers say they're okay to use more energy if it is clean energy and one of the
40 quickest ways to reduce carbon is to eliminate reheat. He cited that customers are now
41 allocating millions of dollars to turn their facilities to net zero and Aircuity was successful in
42 these seven buildings by demonstrating to them where to eliminate reheat and how much
43 carbon they could reduce.

1 Ms. Lampshire commented that because a big focus in healthcare is exposure, including to
2 healthcare employees, facilities must answer to CalOSHA regarding the adequacy of air
3 exchanges, and asked if the system provide a printout of the number of air exchanges in any
4 given point in time. Mr. Diehl responded that the system monitors the ventilation and air change
5 rates on every space individually and whole buildings. He explained that rooms are mapped into
6 a software platform and air samples are pulled and monitored from that platform and the data is
7 archived for perpetuity in the cloud, so one can see what is happening from a phone, iPad, or
8 facility management system, in any given space at any time.

9
10 Bruce Rainey asked about the challenges of this technology in existing facilities versus new
11 buildings. Mr. Diehl responded that more than half of their business is retrofitting existing
12 spaces. The system and the technology deploy into both roughly the same.

13
14 Louise Belair asked how sensitive the sensors are and how much build-up does there need to
15 be in a space before there is a measurement, and if the suggestion is to reduce air changes as
16 a benefit, how do mitigate the risk of exposure. Mr. Diehl responded that measurements in the
17 return air duct depend on reasonable mixing in the space. Aircuity takes the air sample and
18 measure all five parameters using WHO guidelines for when to effectively increase ventilation.
19 He went on to explain that increases in the air change rates in that space helps clean out that
20 system, and as the measurement begins to clean and drop, the ventilation is decreased.

21
22 Ms. Belair followed up by asking how the five different parameters are established. Mr. Diehl
23 stated that Aircuity leans towards safety and health over efficiency and that air change rates are
24 increased at a very low level based on the guidelines of science and the understanding that the
25 system is customizable.

26
27 Dr. Bliss stated that he liked the concept of moving from empiricism to measured responses
28 because many of the standards employed in the built environment were generated by
29 suppositions that weren't necessarily validated by good data. When real-time data can be pulled
30 for better outcomes has a lot of potential for value, because the ability to infection control with
31 air exchanges may be overestimated. Mr. Diehl cited that many customers are operating their
32 laboratories at a two air change rate with dynamic control have broken misconceptions of what
33 a clean space looks like. He disclosed that Aircuity has been able to show that clean rooms that
34 previously operated at 50 or 25 air change rates, can operate at 10 and 8 and be as effective
35 and clean. Mr. Diehl added that he believes it will take a data-driven approach to finally figure
36 out what the right solutions are, along with better mixing or ventilation effectiveness in isolation
37 suites and ORs.

38
39 Ms. Belair asked if any the systems have ever revealed the need for higher ventilation rates or
40 dilution. Mr. Diehl replied that he had many examples of the system data highlighting issues and
41 concerns that people were unaware of, including a university whose outdoor intake was next to
42 a loading dock which was bringing in diesel fumes, and CO2 leaks in hospitals. He added that
43 the University of Pennsylvania considers this an environmental health and safety system that
44 saves the university tremendous energy.

1 Scott Jackson stated that when the Aircuity system was proposed to UCI, he looked at it with a
2 fire and life safety and an environmental safety perspective. It took a concerted effort from
3 environmental safety directors, industrial hygienists, radiation safety officers, facilities
4 managers, and professors and was developed with the State Fire Marshal. He detailed that
5 many were uneasy because they were being asked to do something nobody had ever thought
6 of doing before. Five years later, everyone was onboard, including the governor's office,
7 because of the data produced at the stem cell building at UCI that was designed and built with
8 the system. He noted that the older facilities had to be retrofitted. In closing, Mr. Jackson
9 remarked that it was a UC community project, that took a concerted effort despite the many
10 initial objections. There were a lot of resources in the UC system that were put together with the
11 State Fire Marshal, to develop a way to incorporate these air changes, winning the University
12 numerous energy efficiency prizes as well as safety awards.

13 **Information item and Action Item**

14 none.

15 **3. Microgrid Task Force**

16 **Presenter:** Jamie Schnick, HCAI

17 **Discussion and public Input**

18 John Griffiths commented he is involved in the Ontario project and learning a lot and asked if
19 there was a way to share the information with the greater community in order to avoid these
20 common challenges. Mr. Schnick indicated that he could work with the Building Standards Unit
21 and see if there is a way to share this information. He mentioned that he had a couple of
22 presentations to the design and engineering community that a list can be put together to help
23 get the first on get off the ground and publish that.

24

25 Mr. Griffiths shared that he did a presentation in Marin discussing decarbonization and
26 microgrids, and he thinks there is a general lack of awareness in the community of the benefits
27 of renewable power and microgrids. He asked how to reach decision-makers to help bring about
28 more of these types of projects. Mr. Schnick stated that is the function of the task force and that
29 they are doing everything they can to reach the public but that it is hard to reach those who
30 could benefit most from the information.

31

32 Mr. Tokas added that HCAI's first step is presenting processes to the Board because that is
33 where they receive the feedback that helps refine the policies, methods, procedures, and all the
34 information that they share with the public, so this is essentially the "first step."

35

36 Eric Johnson asked how licensing was coming along with all of this new information and
37 processes. Mr. Schnick stated that he could only speak on CMS, the Federal Program that
38 reimburses for Medicare and Medicaid. He said that the biggest challenge was that CMS
39 adopted an older version of NFPA 110 that only recognizes emergency generators as a source,
40 and the way to get them to adopt a portion of a newer version, which would allow for other
41 emergency sources besides generators, is first to get the model code, NFPA 170. Mr. Schnick
42 continued, that in the past, CMS has been open to the idea of modifications by pulling excerpts

1 of approved codes from a future version of the codes they are enforcing. Therefore, the first
2 step is to get the new codes to recognize microgrids and these clean resources as viable
3 sources for emergency power. He stated that the goal is to keep the communication line open,
4 so that when code does recognize other sources for emergency power, HCAI could go back to
5 ask CMS if we could implement it. Mr. Schnick added that the discussion is taking place, but
6 HCAI can't get CMS to sign off on a code that doesn't exist yet.

7
8 Nanci Timmins reported that as far as licensing, HCAI is in communication but is uncertain that
9 they know the details regarding the pilot projects that are in place right now. Because these
10 projects still use generators for emergency power, the alternate power system is tertiary,
11 therefore requirements are still being met with the projects seen so far.

12
13 Mr. Vernon commented that because the microgrids are in parallel with the diesel and not trying
14 to act in place of the diesel, he doesn't think CMS will have any trouble at all. He then shared
15 with the Committee that the Department of Health and Human Services has created a new
16 Office of Climate Change and Health Equity that would use all statutory authority to start to bend
17 the country's climate curve. One thing that the National Academy of Medicine is encouraging is
18 that CMS begin to adopt the most recently issued versions of the standards they enforce,
19 because the most recent version of NFPA standards already recognizes microgrids and fuel
20 cells for emergency power. Mr. Vernon also disclosed that the next NFPA codes are going to
21 require that the essential system have a minimum of two sources: one source has to be on-site
22 and sized to serve the essential system, and the other source can be either on- or off-site.

23
24 Mr. Griffiths asked for the definition of a clean power source that is written in the proposed code.
25 Mr. Schnick replied that clean power sources include fuel cells, photovoltaics, energy storage,
26 and geothermal. Mr. Griffiths added that someone might propose a bio-diesel generator as a
27 clean power source for a microgrid. Mr. Vernon commented that the issue surrounding "what is
28 a microgrid" is part of the reason that NFPA is getting rid of the term microgrid and are instead
29 talking about sources and sets of sources. Because, in any practical microgrid, he stated that it
30 is likely to include some amount of diesel generation capacity, coupled with other alternate
31 sources, so NFPA will instead be requiring any two power sources whose reliability are
32 sufficient to serve the essential loads.

33 34 **Information item and Action Item**

- 35 • None

36 **4. Macro-Eyes, Inc.'s STRIATA: Artificial Intelligence (AI) for enterprise supply chain**

37 **Presenter:** Jeni Stockman, Micro-Eyes, Inc.

38 **Discussion and public Input**

39 Dr. Bliss asked if Macro-Eyes validates the AI as it improves modeling of rooftop imagery and
40 how does it close the loop and make sure that it is accurate. Ms. Stockman responded it's very
41 rare that predictions are 100% accurate, that's why they speak to them as predictions. She said
42 that they measure against a baseline of what is known previously to what can be predicted, so

1 when talking about fraction errors in terms of confidence intervals and validating the data itself,
2 they don't talk about accuracy. Ms. Stockman explained that the way it is validated is through
3 labeled data to have a set of true data that is known to be factual and that in some instances,
4 that can be data collection that has already happened, or through a phone app that Macro-Eyes
5 created that allows you to take a picture of a quantity and it calculates it much quicker than a
6 human could. She cited that itself becomes valid labeled data, which can be leveraged to other
7 equivalents, similar sites, to validate the predictions that we may have made on those sites. Ms.
8 Stockman noted that it is all about leveraging, learning, and listening to the data, but to always
9 benchmark it against what was known previously to understand accuracy and performance.

10

11 **Information item and Action Item**

- 12 • None

13 **5. Comments from the Public/Board Members on Issues Not on This Agenda.**

- 14 • None.


15 **6. Adjournment**

16 Mr. Lopez adjourned the meeting at approximately 12:02 p.m.

Instrumentation Committee

Draft Meeting Report/Minutes

October 28, 2021



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



**HOSPITAL BUILDING SAFETY BOARD
 Instrumentation Committee**

**Thursday, October 28, 2021
 9:00 a.m. - 3:00 p.m.**

Teleconference Meeting Access:
[HBSB GoToMeeting Instrumentation Committee](#)
 Access Code: 824-806-437

Committee Members Present:

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

HCAI Staff Present:

Hussain Bhatia
 Erol Kalkan
 Roy Lobo
 Ali Sumer
 John Paul Buchanan, OSHPD Attorney

Consulting Members:

Hamid Haddadi
 Moh Huang

HBSB Staff:

Ken Yu, Executive Director
 Joanne Jolls
 Evett Torres

1 **1. Welcome and Introductions**

2 Marshall Lew, Chair, called the meeting to order on October 28, 2021, at 9:00 a.m., and HBSB
 3 Executive Director Ken Yu called roll.

4

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

7

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

9 Mr. Yu read the public announcement regarding COVID-19, OSHPD officially becoming the
 10 Department of Health Care Access Information (HCAI), and meeting rules and procedures.

11

12 **3. Annual update to the Committee regarding the California Strong Motion**
 13 **Instrumentation Program (CSMIP)**

1 **Presenter:** Erol Kalkan, HCAI

- 2 • Status of hospital buildings selected to be instructed
- 3 • Newly proposed candidate hospital buildings for CSMIP
- 4 • Discussion and public input

5 **Discussion and public Input**

6 Mr. Lew questioned if there are any HCAI paid buildings waiting to be instrumented, or have
7 they run out of buildings. Roy Lobo stated HCAI only has two hospitals remaining this year:
8 Miller Children's and Presbyterian Hospital.

9

10 Mr. Lew asked if in there were any 4D projects in the San Diego area, do we have any 4D. Ali
11 Sumer stated there are three one-story buildings, and one three-story building being
12 constructed in the San Diego area.

13

14 Bruce Clark asked if all new hospitals are required to be instrumented. Mr. Lobo responded that
15 only hospitals that meet the thresholds given in Appendix L of the California Building Code, or
16 have seismic isolation or damping, need to be instrumented.

17 **Information item and Action Item**

18 None.

19

20 **4. Review of the Fiscal Year 2020-21 HCAI/CSMIP Hospital Instrumentation Annual**
21 **Report by the California Strong Motion Instrumentation Program**

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

- 23 • Discussion and public input

24 **Discussion and public Input**

25 Mr. Lew asked who pays for the sensors. Mr. Haddadi stated that HCAI pays for the sensors
26 unless it is owner-funded, then the owner is responsible to fix the instrumentation.

27

28 Mr. Lew questioned how many other recording systems or sensors need to be replaced. Mr.
29 Haddadi responded that 79 of the 108 systems installed are obsolete and that sixteen of those
30 are scheduled to be replaced this fiscal year. He indicated that there are several other recording
31 systems that are also obsolete, and those are planned for next fiscal year. He stated the budget
32 will not allow for all the work needed and that the plan being presented is only for the current
33 fiscal year.

34

35 Mr. Haddadi pointed out that one important outcome from upgrading the SSAs is
36 communication, because although they do communicate with the stations, it is not automated.
37 He explained that meant if there was an earthquake, modern recording systems automatically
38 call in the information, whereas with SSAs, a technician needs to call into the system to recover
39 the information, causing a delay in the recovery, processing and dissemination of the data. Mr.
40 Haddadi stressed that upgrading SSA systems is "low hanging fruit" that would have a
41 significant impact on operation of the hospital, monitoring, and data recovery and dissemination.

1 Mr. Lew inquired about the cost for replacing the SSA systems in the three hospitals planned for
2 this fiscal year. Mr. Haddadi responded that the cost is estimated to be \$108,000 - \$110,000,
3 including labor. Mr. Lew followed up by asking what the next level of system upgrades are
4 needed after the SSAs are replaced. Mr. Haddadi stated they have several other recorders that
5 have become obsolete in recent years that need to be upgraded next; 24 ETNAs, 18 K2s, and
6 12 Mt. Whitney's. Mr. Lew stated that he would like to see a projection on the replacements as
7 well as an estimate of cost. Mr. Haddadi stated he would work on the cost estimate for the
8 Committee.

9 **Information item and Action Item**

- 10 • None.

11 **5. Discussion on the draft white paper outline, "The Benefits of Strong-Motion** 12 **Instrumentation in Hospital Facilities"**

13 **Presenter:** Bruce Clark, Committee Vice-Chair

- 14 • Going beyond accelerographs
- 15 • New available technologies for measuring ground motions
- 16 • Low-cost sensors to augment/supplement existing technology
- 17 • Improvements in data acquisition, transmission, and processing
- 18 • Role of artificial intelligence in improving analytical results
- 19 • Dissemination of critical information to affected stakeholders
- 20 • Examples
- 21 • Costing
- 22 • Benefits
- 23 • Discussion and public input

24 **Discussion and public Input**

25 Mr. Naiem stressed that in a white paper being produced to highlight the value of
26 instrumentation, it should present to owners the types of information they would get, essentially
27 showing that with a small investment in instrumentation, they would have the ability to assess
28 the status of their hospital building. Mr. Clark reminded the Committee that HCAI is a user of the
29 CSMIP activities and data, and that as that a user, it is part of their responsibility to explain to
30 the hospital owners that there may be data or analysis systems available that are beyond what
31 CSMIP will offer. Mr. Lew opined that HCAI needs to have a statement explaining why HCAI is
32 recording this data and how it is going to use it.

33

34 Mr. Haddadi provided updates on some of the activities currently going on at CGS. He reported
35 that CGS has been considering the application of low-cost instruments and that CGS is in
36 discussions with Caltech and UCLA about setting up a pilot project to study and compare the
37 results of CSM type instruments with high-performance seismic equipment. Mr. Haddadi stated
38 that the goal was to conclude how and where low performance, low-cost instruments are best
39 used. Mr. Haddadi also reported that CGS is in discussions CalOES about how to use Shake
40 Alert information for engineering applications. He expressed that it would be very important to
41 touch on these topics in the white paper. Mr. Clark concurred that it would add value to the
42 white paper.

1

2 Mr. Lew suggested that HCAI consider participating in the pilot program and include one of the
3 future hospital projects that require instrumentation. Mr. Haddadi agreed it was a great idea,
4 especially because under the pilot project, CGS planned to put low-cost sensors side by side
5 with the high-performance sensors in buildings that are already instrumented and compare the
6 results. He stated that an independent institution was needed to compare the results and
7 determine how far and how much the low-performance sensors could be used. Mr. Haddadi
8 added that CGS would like to do the same comparison on the ground surface in the free field as
9 well as put low-cost sensors in between the existing high-performance stations to see how the
10 low-performance instruments can be used to fill the gap. He revealed that as part of the work
11 related to Shake Alert, under a project with CalOES, a real-time data processing center is being
12 set up at CGS. The plan is that the upgraded stations, ground stations, and structures will send
13 data in real-time to this data center where it will very quickly be processed and disseminated.
14 Two pilot projects already in the works are the Golden Gate Bridge and the Hayward bridge,
15 which will be sending data in real-time to the processing center. Mr. Haddadi noted that the
16 same thing could be done with a hospital and the white paper could show examples of what can
17 be done with an updated operating system.

18

19 Mr. Naiem suggested that the Committee iterate to finalize the outline of the white paper, assign
20 volunteers to write a first draft of the different sections, then pass it through a series of iterations
21 to make it the final outline. Mr. Clark agreed and suggested they spend the next couple weeks
22 going back through an existing outline and looking at all the ideas, add content to come up with
23 a package that's ready to go by the next Committee meeting, likely in February. Mr. Yu stated
24 due to a possible Bagley-Keene issue. If committee members participate or assigning portions
25 of this white paper outline to committee members should be funneled through HCAI staff.

26

27 Mr. Clark asked if it would be appropriate to take the document, make it available to everybody
28 and have them send in their comments to HCAI staff and have them compile it. Mr. Yu
29 consulted with HCAI legal counsel to see if there were any Bagley-Keene issues concerning this
30 matter. Jean Paul Buchanan clarified that if committee members aren't communicating with
31 each other, and there is no quorum, it should be fine. He stated that members can't work on the
32 same document, nor can they convey other members' suggestions because then it becomes an
33 issue of potentially having serial meetings. The committee members coming together in a group
34 larger than the subcommittee would be problematic. Mr. Yu announced that next week, they are
35 having a planning meeting to go over the meeting calendar for 2022. If they need more
36 Instrumentation Committee meetings in 2022, they can do that as well to further discuss issues
37 on the white paper. The Committee agreed to have the next meeting in early February.

38 **Information item and Action Item**

39 **MOTION:** [Naiem/Malley]

40 The Committee voted to approve the outline of the white paper to be delivered by Mr. Clark to
41 include an interpretation of the topics that he presented and were discussed today at this
42 meeting to the HCAI staff so that they can distribute it to members, solicit their ideas, and put
43 together an updated outline for everybody's discussion at the Committee's next meeting.

1

2 Mr. Clark asked how they go about editing, proofing, or revising a draft of a document like this.
3 Mr. Yu stated that no more than two Committee members can discuss it at any time. Mr. Clark
4 suggested developing a more detailed outline, assign specific members of the committee who
5 would be most effective for each of the chapters, have each of them become the individual on
6 the committee that is responsible for that chapter, and work with HCAI staff to package each
7 chapter. He remarked that the white paper will be a compilation of those chapters, which will
8 happen at the meeting after next.

9 **6. Committee goals for 2022**

- 10 • Discussion goals for the committee in the coming year
11 • Discussion and public input

12 **Presenter:** Marshall Lew, Chair

13 **Discussion and public Input**

14 Mr. Lew stated that the Committee would have a full plate next year developing the white paper.
15 He requested a listing of the hospitals and multiple building locations that are instrumented. Mr.
16 Kalkan acknowledged stating that he will provide the list.

17 **Information item and Action Item**

18 None

19 **7. Comments from the Public/Board Members on Issues Not on This Agenda.**

- 20 • None.

21 **8. Adjournment**

22 Mr. Lew adjourned the meeting at approximately 11:33 a.m.

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2022 Committee Assignments, Goals and Meeting Calendar



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**HOSPITAL BUILDING SAFETY BOARD
2022 COMMITTEES**

BOARD PROCEDURES COMMITTEE (AD HOC)

<p><u>Committee Members:</u> Michael Foulkes, Chair Pete Kreuser, Vice-Chair Louise Belair Bruce Rainey</p>	<p><u>HCAI Representatives:</u> Joe LaBrie</p> <p><u>Meeting Dates:</u> January 26</p>
<p>Focus/Goals:</p> <ul style="list-style-type: none"> • Meet as needed for: <ul style="list-style-type: none"> ○ Policies and Procedures updates ○ Nominating committee, training/onboarding members 	

CODES AND PROCESSES COMMITTEE

<p><u>Committee Members:</u> Michael O'Connor, Chair Roy Lopez, Vice-Chair Louise Belair Mike Hooper Scott Jackson Pete Kreuser Michele Lampshire Scott Mackey Jim Malley Farzad Naeim</p>	<p><u>HCAI Representatives:</u> Brett Beekman Mickey Fong Bill Gow Roy Lobo Dave Mason Diana Navarro Diana Scaturro Nanci Timmins</p>
<p><u>Consulting Members:</u> John Donelan Mark Hershberg</p>	<p><u>Meeting Dates:</u> February 10 May 12 July 14 October 13</p>
<p>Focus/Goals:</p> <ul style="list-style-type: none"> • 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 • Parts 3, 4 and 5 <ul style="list-style-type: none"> ○ NPC-5 Water, Sewer storage requirements ○ 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 	

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

Consulting Members:

John Donelan
Gary Dunger
Bill Zellmer

Meeting Dates:

February 23
May 25
August 17
October 19

Focus/Goals:

- Webinars:
 - Offsite Fabrication/Pre-assembled components
 - PINs and CANs related to Fire Life Safety, Pre-approvals, medicine dispensing units and emergency projects
 - Emergency Design Guide
 - 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

<u>Committee Members:</u> Roy Lopez, Chair Scott Jackson, Vice-Chair Louise Belair David Bliss Deepak Dandekar Michael Foulkes David Khorram Michele Lampshire Bruce Rainey	<u>HCAI Representatives:</u> Bill Gow Dave Mason Diana Scaturro Jamie Schnick Nanci Timmins
<u>Consulting Members:</u> John Griffiths Eric Johnson David Lockhart	<u>Meeting Dates:</u> March 15 June 14 September 13
<u>Focus/Goals:</u> <ul style="list-style-type: none">• Work with CEC to develop mutually agreeable standards for hospital building energy efficiency in 2025 code cycle• Identify HCAI research projects for energy conservation, reduction of carbon footprint, and cost savings while maintaining health and safety• 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

<u>Committee Members:</u> Marshall Lew, Chair Bruce Clark, Vice-Chair Jim Malley Farzad Naeim Jennifer Thornburg	<u>HCAI Representatives:</u> Hussain Bhatia Roy Lobo Ali Sumer Erol Kalkan
<u>Consulting Members:</u> Hamid Haddadi Moh Huang Tony Shakal	<u>Meeting Dates:</u> January 20 April 7 October 27
<u>Focus/Goals:</u> <ul style="list-style-type: none">• 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, Acting Chair
Bruce Clark
Mike Hooper
David Khorram
Marshall Lew
Farzad Naeim
Michael O'Connor
Jennifer Thornburg

Consulting Member:

Michelle Malone

HCAI Representatives:

Joe LaBrie
Roy Lobo
David Neou
Jamie Schnick
Ali Sumer

Meeting Dates:

January 13
June 9
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
Jamie Schnick
Nanci Timmins

Meeting Dates:

March 23
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
August 11 – Los Angeles
December 7 and 8 – Sacramento



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



November 24, 2021

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
January 13, 2022 9 am – 3 pm	Structural and Nonstructural Regulations Committee	GoToMeeting: https://www.gotomeet.me/FDDWebinar/hbsb-snsr-committee-meeting-january-2022 Or call: +1 (872) 240-3212 Access Code: 833-722-805
January 20, 2022 9 am – 3 pm	Instrumentation Committee	GoToMeeting: https://www.gotomeet.me/FDDWebinar/hbsb-instrumentation-committee-mtg-january-2022 Or call: +1 (408) 650-3123 Access Code: 191-634-925
January 26, 2022 9 am – 3 pm	Board Procedures Committee (Ad hoc)	GoToMeeting: https://www.gotomeet.me/FDDWebinar/hbsb-bp-committee-meeting-january-2022 Or call: +1 (408) 650-3123 Access Code: 834-687-925

DATE	MEETING	LOCATION
February 10, 2022 10 am – 4 pm	Codes and Processes Committee	Sacramento: HCAI 2020 W. El Camino Ave.; Ste. 930 Sacramento, CA 95833
		Los Angeles: HCAI 355 South Grand Ave.; Ste. 1901 Los Angeles, CA 90071
February 23, 2022 10 am – 4 pm	Education and Outreach Committee	Sacramento: HCAI 2020 W. El Camino Ave.; Ste. 930 Sacramento, CA 95833
		Los Angeles: HCAI 355 South Grand Ave.; Ste. 1901 Los Angeles, CA 90071
March 15, 2022 10 am – 4 pm	Energy Conservation and Management Committee	Sacramento: HCAI 2020 W. El Camino Ave.; Ste. 930 Sacramento, CA 95833
		Los Angeles: HCAI 355 South Grand Ave.; Ste. 1901 Los Angeles, CA 90071
March 23, 2022 10 am – 4 pm	Technology and Research Committee	Sacramento: HCAI 2020 W. El Camino Ave.; Ste. 930 Sacramento, CA 95833
		Los Angeles: HCAI 355 South Grand Ave.; Ste. 1901 Los Angeles, CA 90071

DATE	MEETING	LOCATION
April 7, 2022 10 am – 4 pm	Instrumentation Committee	Sacramento: HCAI 2020 W. El Camino Ave.; Ste. 930 Sacramento, CA 95833
		Los Angeles: HCAI 355 South Grand Ave.; Ste. 1901 Los Angeles, CA 90071
April 28, 2022 10 am – 4 pm	Full Board	Sacramento: HCAI 2020 W. El Camino Ave. Conference Center 900 A/B Sacramento, CA 95833
May 12, 2022 10 am – 4 pm	Codes and Processes Committee	Sacramento: HCAI 2020 W. El Camino Ave.; Ste. 930 Sacramento, CA 95833
		Los Angeles: HCAI 355 South Grand Ave.; Ste. 1901 Los Angeles, CA 90071
May 25, 2022 10 am – 4 pm	Education and Outreach Committee	Sacramento: HCAI 2020 W. El Camino Ave.; Ste. 930 Sacramento, CA 95833
		Los Angeles: HCAI 355 South Grand Ave.; Ste. 1901 Los Angeles, CA 90071
June 9, 2022 10 am – 4 pm	Structural and Nonstructural Regulations Committee	Sacramento: HCAI 2020 W. El Camino Ave.; Ste. 930 Sacramento, CA 95833
		Los Angeles: HCAI 355 South Grand Ave.; Ste. 1901 Los Angeles, CA 90071

DATE	MEETING	LOCATION
June 14, 2022 10 am – 4 pm	Energy Conservation and Management Committee	Sacramento: HCAI 2020 W. El Camino Ave.; Ste. 930 Sacramento, CA 95833
		Los Angeles: HCAI 355 South Grand Ave.; Ste. 1901 Los Angeles, CA 90071
July 14, 2022 10 am – 4 pm	Codes and Processes Committee	Sacramento: HCAI 2020 W. El Camino Ave.; Ste. 930 Sacramento, CA 95833
		Los Angeles: HCAI 355 South Grand Ave.; Ste. 1901 Los Angeles, CA 90071
July 27, 2022 10 am – 4 pm	Technology and Research Committee	Sacramento: HCAI 2020 W. El Camino Ave.; Ste. 930 Sacramento, CA 95833
		Los Angeles: HCAI 355 South Grand Ave.; Ste. 1901 Los Angeles, CA 90071
August 11, 2022 10 am – 4 pm	Full Board	Los Angeles: HCAI 355 South Grand Ave.; Ste. 2000 Los Angeles, CA 90071
August 17, 2022 10 am – 4 pm	Education and Outreach Committee	Sacramento: HCAI 2020 W. El Camino Ave.; Ste. 930 Sacramento, CA 95833
		Los Angeles: HCAI 355 South Grand Ave.; Ste. 1901 Los Angeles, CA 90071

DATE	MEETING	LOCATION
September 13, 2022 10 am – 4 pm	Energy Conservation and Management Committee	Sacramento: HCAI 2020 W. El Camino Ave.; Ste. 930 Sacramento, CA 95833
		Los Angeles: HCAI 355 South Grand Ave.; Ste. 1901 Los Angeles, CA 90071
September 22, 2022 10 am – 4 pm	Structural and Nonstructural Regulations Committee	Sacramento: HCAI 2020 W. El Camino Ave.; Ste. 930 Sacramento, CA 95833
		Los Angeles: HCAI 355 South Grand Ave.; Ste. 1901 Los Angeles, CA 90071
October 13, 2022 10 am – 4 pm	Codes and Processes Committee	Sacramento: HCAI 2020 W. El Camino Ave.; Ste. 930 Sacramento, CA 95833
		Los Angeles: HCAI 355 South Grand Ave.; Ste. 1901 Los Angeles, CA 90071
October 19, 2022 10 am – 4 pm	Education and Outreach Committee	Sacramento: HCAI 2020 W. El Camino Ave.; Ste. 930 Sacramento, CA 95833
		Los Angeles: HCAI 355 South Grand Ave.; Ste. 1901 Los Angeles, CA 90071

DATE	MEETING	LOCATION
October 27, 2022 10 am – 4 pm	Instrumentation Committee	Sacramento: HCAI 2020 W. El Camino Ave.; Ste. 930 Sacramento, CA 95833
		Los Angeles: HCAI 355 South Grand Ave.; Ste. 1901 Los Angeles, CA 90071
November 1, 2022 10 am – 4 pm	Technology and Research Committee	Sacramento: HCAI 2020 W. El Camino Ave.; Ste. 930 Sacramento, CA 95833
		Los Angeles: HCAI 355 South Grand Ave.; Ste. 1901 Los Angeles, CA 90071
December 7, 2022 10 am – 4 pm	Two-day Full Board (Day 1)	Sacramento: HCAI 2020 W. El Camino Ave. Conference Center 900 A/B Sacramento, CA 95833
December 8, 2022 9 am – 12 pm	Two-day Full Board (Day 2)	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, evett.torres@hcai.ca.gov or by sending a letter to 2020 West El Camino Avenue, Suite 800, Sacramento, CA 95833. Providing your request at least five (5) business days before the meeting will help ensure availability of the requested accommodation

Board Rosters

2021

- MEETING ATTENDANCE
 - COMMITTEE LIST
 - BOARD MEMBERSHIP
- CONSULTING COMMITTEE MEMBERS

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HBSB Attendance 2020-2021		12.10.20 Full Board	1.14.21 Codes and Processes	1.21.21 Education and Outreach	1.27.21 Structural & Non-Structural Regulations	2.10.21 Technology and Research	2.14.21 Structural & Non-Structural Regulations	2.21.21 Codes and Processes	3.11.21 Education and Outreach	3.14.21 Codes and Processes	3.24.21 Structural & Non-Structural Regulations	4.29.21 Full Board	5.20.21 Instrumentation	6.10.21 Technology and Research	6.24.21 Energy Conservation & Mgmt	6.30.21 Codes and Processes	7.14.21 Structural & Non-Structural Regulations	8.18.21 Full Board	9.23.21 Codes and Processes	10.13.21 Education and Outreach	10.28.21 Energy Conservation & Mgmt	11.10.21 Technology and Research	
Belair, Louise	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Bliss, David	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Clark, Bruce	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Dandekar, Deepak	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Foulkes, Michael	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Hooper, Mike	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Hurlbut, Bert	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Jackson, Scott	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Khorrarn, David	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Kreuser, Pete	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Lampshire, Michele	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Lew, Marshall	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Lopez, Roy	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Mackey, Scott	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Malley, Jim	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
O'Connor, Michael	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Naeim, Farzad	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Rainey, Bruce	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Thornburg, Jennifer/Tim McCrink	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CONSULTING MEMBERS:																							
Broder, Benjamin																							
Donelan, John																							
Dunger, Gary																							
Griffiths, John																							
Haddadi, Hamid																							
Hershberg, Mark																							
Huang, Moh																							
Johnson, Eric																							
Lockhart, David																							
Malone, Michelle																							
Shakai, Tony																							
Zellmer, Bill																							

Legend

Columns: HBSB Meeting Name and Dates

Rows: HBSB Members

Shaded cell with "X": Member attended required meeting

Shaded cell without "X": Member absent

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

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HOSPITAL BUILDING SAFETY BOARD 2021 COMMITTEES

BOARD PROCEDURES COMMITTEE (AD HOC)

<p><u>Committee Members:</u> Michael Foulkes, Chair Pete Kreuser, Vice-Chair Louise Belair Bruce Rainey</p>	<p><u>HCAI Representatives:</u> Joe LaBrie</p>
<p>Focus/Goals:</p> <ul style="list-style-type: none"> • Meet as needed for: <ul style="list-style-type: none"> ○ Policies and Procedures updates ○ Nominating committee, training/onboarding members 	

CODES AND PROCESSES COMMITTEE

<p><u>Committee Members:</u> Michael O'Connor, Chair Roy Lopez, Vice-Chair Louise Belair Mike Hooper Scott Jackson Pete Kreuser Michele Lampshire Scott Mackey Jim Malley Farzad Naeim</p>	<p><u>HCAI Representatives:</u> Brett Beekman Mickey Fong Bill Gow Roy Lobo Dave Mason Diana Navarro Diana Scaturro Nanci Timmins</p>
<p><u>Consulting Members:</u> John Donelan Mark Hershberg</p>	<p><u>Meeting Dates:</u> January 14 March 11 June 24 September 23</p>
<p>Focus/Goals:</p> <ul style="list-style-type: none"> • Develop code language with CDPH (ongoing) <ul style="list-style-type: none"> ○ Define code disparities ○ Articulate a schedule for the reconciliation process • Research initiative for 2022 code cycle updates (ongoing) • Update CANs and PINs to code (ongoing) • Mental health jurisdiction flowchart • Standard details for SNF wood and light gauge metal framing • Temporary utilities • TIO Program: virtual/offsite inspections • Evaluate and articulate detailed building standards for SNFs <ul style="list-style-type: none"> ○ Examine current light gauge metal framing standards and recommend methods to affirm these requirements and disseminate that to stakeholders ○ Energy backup systems 	

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

Consulting Members:

John Donelan
Gary Dunger
Bill Zellmer

Meeting Dates:

February 10
~~May 12~~ CANCELLED
July 14
October 13

Focus/Goals:

- Webinars:
 - Offsite Fabrication
 - PINs and CANs related to Fire Life Safety, Pre-approvals, and Accessibility Standards
 - HCAI Guidelines and flow chart regarding COVID-19 and emergencies
 - White paper regarding microgrids
- Work with ISU on IOR training and development
- Broadly define educational needs and methodologies
 - Include electronic formats
 - Determine the educational needs of the industry:
 - What is the best approach or method to use in providing that training?
 - What is needed by IORs? Design Professionals? Hospital Representatives?
- Consider creating virtual seminars with break-out rooms and networking opportunities

ENERGY CONSERVATION AND MANAGEMENT COMMITTEE

Committee Members:

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

HCAI Representatives:

Bill Gow
Dave Mason
Diana Scaturro
Jamie Schnick
Nanci Timmins

Consulting Members:

John Griffiths
Eric Johnson
David Lockhart

Meeting Dates:

January 21
June 10
October 7

Focus/Goals:

- Work with CEC to develop mutually agreeable standards for hospital building energy efficiency in 2022 code cycle
- 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

INSTRUMENTATION COMMITTEE

Committee Members:

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

HCAI Representatives:

Hussain Bhatia
Roy Lobo
Ali Sumer
Erol Kalkan

Consulting Members:

Hamid Haddadi
Moh Huang
Tony Shakal

Meeting Dates:

May 20
October 28

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, Acting Chair
Bruce Clark
Mike Hooper
David Khorram
Marshall Lew
Farzad Naeim
Michael O'Connor
Jennifer Thornburg

HCAI Representatives:

Joe LaBrie
Roy Lobo
David Neou
Jamie Schnick
Ali Sumer

Consulting Member:

Michelle Malone

Meeting Dates:

January 27
March 24
June 30
September 29 **CANCELED**

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

HCAI Representatives:

Hussain Bhatia
Joe LaBrie
Diana Scaturro
Jamie Schnick
Nanci Timmins

Consulting Member:

Benjamin Broder
Gary Dunger
Eric Johnson

Meeting Dates:

February 4
April 29
~~July 22~~ CANCELLED
November 10

Focus/Goals:

- Explore subjects of telemedicine and robotics
- Discuss continuing evolution of interventional imaging; have vendors present current equipment capabilities and look at impacts to future shielding requirement
- 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 22 – Online
August 18 – Online
December 8 and 9 – Sacramento

HOSPITAL BUILDING SAFETY BOARD MEMBERSHIP

Appointed Members (Appointed by HCAI Director)

MEMBERSHIP CATEGORIES	NAMES	APPNTMNT DATE	TERM EXP DATE	TERM OF SERVICE
2 structural engineers	James O. Malley Farzad Naeim	8/2020 8/2021	8/2024 8/2025	1 st term 1 st term
2 architects	Deepak Dandekar Scott Mackey	5/2015 8/2021	5/2023 8/2025	2 nd term 1 st term
1 engineering geologist	Bruce Clark	12/2019	12/2023	1 st term
1 geotechnical engineer	Marshall Lew	5/2015	5/2023	2 nd term
1 mechanical engineer	Louise Belair	6/2017	6/2021	1 st term
1 electrical engineer	Roy L. Lopez	6/2018	6/2022	1 st 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 st term
1 general contractor	Pete Kreuser	7/2016	7/2024	2 nd term
1 fire/life safety representative	Scott L. Jackson	6/2018	6/2022	1 st term
1 hospital inspector of record	Mike Hooper	5/2015	5/2023	2 nd term
3 public members	Michele Lampshire David Bliss D. Michael Foulkes	12/2019 5/2016 6/2017	12/2023 5/2024 6/2021	1 st term 2 nd term 1 st term
TOTAL	16			

Ex-Officio Members

HCAI, Director	Elizabeth Landsberg	No Term of Office Stipulated
State Fire Marshal	Mike Richwine	
State Geologist	Steve Bohlen (Acting) Tim McCrink/Jennifer Thornburg (Delegates)	
Building Standards Commission, Executive Director	Mia Marvelli Michael Nearman (Delegate)	
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 Hurlbut Michael O'Connor	No Term of Office Stipulated
TOTAL	2	

TOTAL HBSB Members	24
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2021 CONSULTING COMMITTEE MEMBERS

<p>Benjamin Broder, MD, PhD, CPPS KAISER PERMANENTE/SO. CALIFORNIA</p> <ul style="list-style-type: none"> • Technology and Research Committee 	<p>John Donelan HCAI/ FDD</p> <ul style="list-style-type: none"> • Codes and Processes Committee • Education and Outreach Committee
<p>Gary Dunger CEDARS-SINAI HEALTH SYSTEM</p> <ul style="list-style-type: none"> • Codes and Processes Committee • Education and Outreach Committee • Technology and Research Committee 	<p>John Griffiths PE LEED AP CONTECH-CA</p> <ul style="list-style-type: none"> • Energy Conservation and Management Committee
<p>Hamid Haddadi CALIFORNIA GEOLOGICAL SURVEY</p> <ul style="list-style-type: none"> • Instrumentation Committee 	<p>Mark Hershberg, SE KPFF CONSULTING ENGINEERS</p> <ul style="list-style-type: none"> • Codes and Processes Committee
<p>Moh Huang CALIFORNIA GEOLOGICAL SURVEY</p> <ul style="list-style-type: none"> • Instrumentation Committee 	<p>Eric C. Johnson, PE ECOM ENGINEERING, INC.</p> <ul style="list-style-type: none"> • Energy Conservation and Management Committee • Technology and Research Committee
<p>David Lockhart CHFM, CEM KAISER PERMANENTE</p> <ul style="list-style-type: none"> • Energy Conservation and Management Committee 	<p>Michelle Malone, MPA TRUNRTH, INC.</p> <ul style="list-style-type: none"> • Structural and Nonstructural Regulations Committee
<p>Tony Shakal CALIFORNIA GEOLOGICAL SURVEY</p> <ul style="list-style-type: none"> • Instrumentation Committee 	<p>Bill Zellmer, AIA, CASp SUTTER HEALTH</p> <ul style="list-style-type: none"> • Education and Outreach Committee

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