HOSPITAL BUILDING SAFETY BOARD

Full Board Meeting August 18, 2021



*** 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.

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OSHPD

Office of Statewide Health Planning and Development

Hospital Building Safety Board 2020 West El Camino Avenue, Suite 800 Sacramento, CA 95833 (916) 440-8453 (916) 324-9188 Fax www.oshpd.ca.gov/Boards/HBSB/index.html



AMENDED

*** 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.

Appointed Members
Louise Belair, Chair
David Bliss, Vice Chair
Bruce Clark
Deepak Dandekar
Rami Elhassan
Michael Foulkes
Mike Hooper
Scott L. Jackson
David Khorram
Pete Kreuser
Michele Lampshire
Marshall Lew
Roy L. Lopez
Bruce Macpherson

<u>Director-Appointed</u> <u>Ex-Officio Members</u> Bert Hurlbut Michael O'Connor

Jim O. Malley

Bruce Rainey

NOTICE OF PUBLIC MEETING

HOSPITAL BUILDING SAFETY BOARD Full Board Meeting

Date:

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

For more detailed instructions on how to join via GoToMeeting, see page 4.

Ex-Officio Members Elizabeth Landsberg OSHPD 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 J. Aragón, M.D., Dr. P.H. Dept. of Public Health Director Nathaniel Gilmore (Delegate)

Chris Tokas (Acting)
Facilities Development Division
(OSHPD)
Deputy Director

Executive Director Ken Yu

AGENDA

Item	Subject	Facilitator
1	Call to Order	Louise Belair,
	 Welcome and introductions of HBSB members and OSHPD staff 	Board Chair (or designee)
	 Suspension of Bagley-Keene Act requirements per Executive Order N-29-20 Conduct of Meeting 	

Item	Subject	Facilitator	Pg
2	Swearing-in Ceremony for new HBSB members: Scott Mackey, Architect Representative Farzad Naeim, Structural Engineer Representative Recognition of outgoing HBSB members: Rami Elhassan, Structural Engineer Representative Bruce Macpherson, Architect Representative Acknowledgment of second-term appointments of: Louise Belair, Mechanical Engineer Representative Michael Foulkes, Public Member Representative OSHPD Update Discussion and public input	Elizabeth Landsberg, OSHPD Director (or designee)	5
3	Overview and approval of the April 22, 2021 Full Board draft Meeting Report/Minutes • Discussion and public input	Louise Belair, Board Chair (or designee)	7
4	 Technology and Research Committee Overview and approval of the April 29, 2021 draft Meeting Report/Minutes Discussion and public input 	Bruce Rainey, Committee Chair (or designee)	15
5	 Instrumentation Committee Overview and approval of the May 20, 2021 draft Meeting Report/Minutes Discussion and public input 	Marshall Lew, Committee Chair (or designee)	21
6	 Energy Conservation and Management Committee Overview and approval of the June 10, 2021 draft Meeting Report/Minutes Discussion and public input 	Roy Lopez, Committee Chair (or designee)	27
7	 Codes and Processes Committee Overview and approval of the June 24, 2021 draft Meeting Report/Minutes Discussion and public input 	Michael O'Connor, Committee Chair (or designee)	33
8	 Education and Outreach Committee Update on the July 14, 2021 meeting Discussion and public input 	Mike Hooper, Committee Chair (or designee)	

Item	Subject	Facilitator
9	 Inspection Services Unit Update 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)
10	 Building Standards Unit Update Building Standards Unit to provide an update on accomplishments year-to-date Discussion and public input 	Richard Tannahill, Acting Deputy Division Chief (or designee)
11	 Structural Services Section Update Structural Services Section to provide an update on accomplishments year-to-date Discussion and public input 	Roy Lobo, FDD Principal Structural Engineer (or designee)
12	 Fire Prevention Unit Update 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)
13	 Electronic Services Update Update on accomplishments year-to-date Discussion and public input 	Diana Scaturro, FDD Supervisor (or designee)
14	 FDD Update Workload and performance Personnel changes Discussion and public input 	Chris Tokas, Acting FDD Deputy Director (or designee)
15	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. This agenda and other notices about meetings are posted on the Internet at https://oshpd.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 at (916) 440-8453, at evett.torres@oshpd.ca.gov or sending a written request to HBSB Staff at 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.

Tentative schedule of future Full Board meetings:

December 8 − 9, 2021

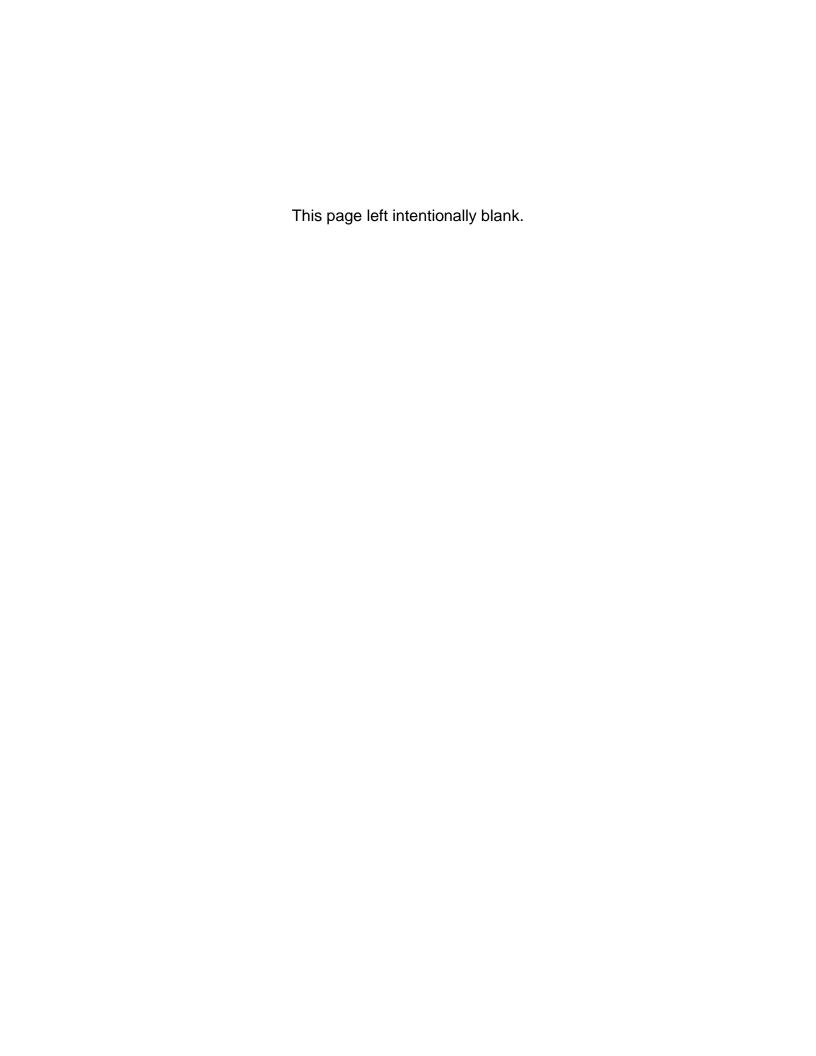
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OSHPD Update



New HBSB Members

Architect Representative:

Scott K. Mackey has over 35 years of experience as a licensed architect, serving public and privates sector clients in California and Arizona. His experience includes project management and coordination, code compliance, quality control, and specifications and standardization on a broad range of projects.

For the past 18 years, Mr. Mackey has focused on hospital facilities impacted by the SB 1953 seismic retrofit program. He has worked with OSHPD on a broad range of healthcare facility projects throughout the state, including replacement of the nearly century-old Barstow Community Hospital with a new, 82,000 square foot, 30-bed facility; consolidation and replacement of the Depression-era LAC + USC Medical Center with a new, 600-bed, 1.5 million square foot hospital; and over 100 on-going projects for Kaiser Permanente Medical Centers in Moreno Valley and Riverside, California.

Mr. Mackey has been a member of the American Institute of Architects (AIA) since 1993. In recognition of his knowledge of all aspects of healthcare facility design and leadership in this field, Mr. Mackey was appointed co-chairperson of the AIA California Healthcare Facilities Forum in 2017.

Structural Engineer Representative:

Farzad Naeim, SE, is a licensed structural engineer with over 36 years of experience in structural analysis, research and development, and seismic retrofit design of buildings. He is president of Farzad Naeim, Inc., CEO of Mehrain Naeim International, and Adjunct Professor of Engineering at the University of California, Irvine.

Dr. Naeim has extensive experience in the design, peer review, and plan-check of numerous hospital buildings for OSHPD. He has worked extensively with the City of Los Angeles to develop regulations for the design and construction of very tall buildings, resulting in significant seismic safety improvements in Los Angeles and other major cities.

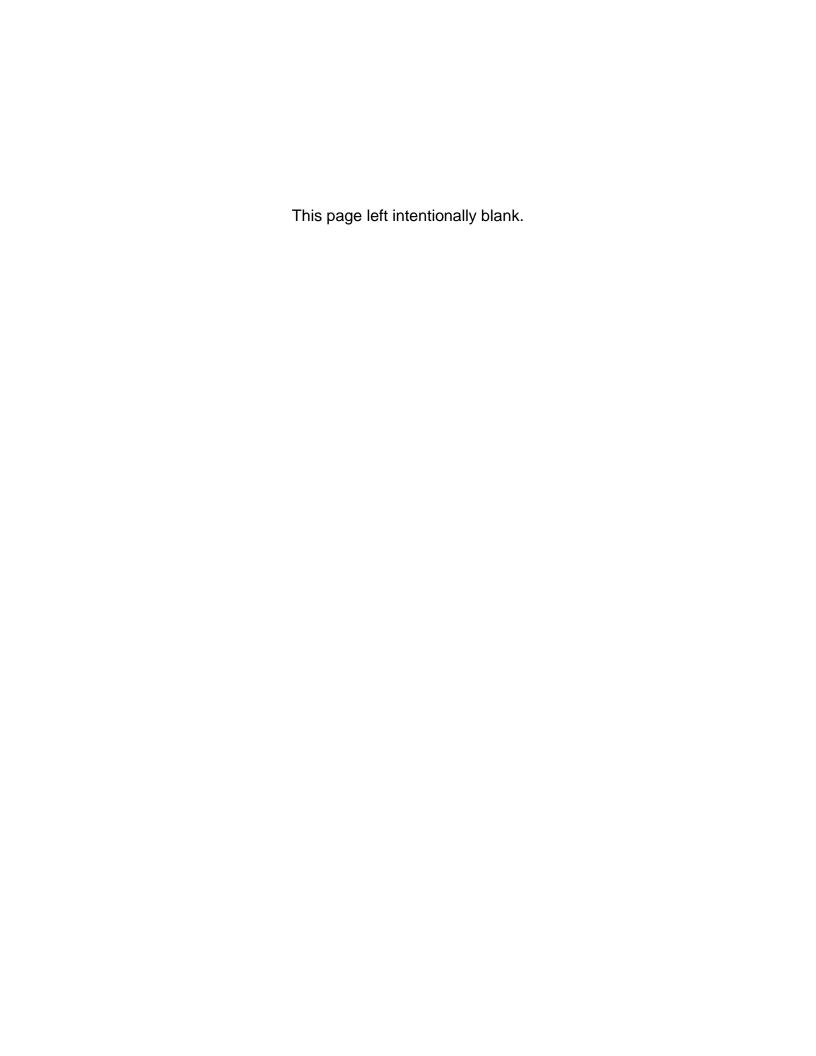
Dr. Naeim is a past president of the Earthquake Engineering Research Institute and the Los Angeles Tall Buildings Structural Design Council. He is a past director of the Structural Engineering Association and a current member of the Advisory Council of the Southern California Earthquake Center. In addition, Dr. Naeim has published five textbooks, more than 160 peer-reviewed papers, and has developed 45 different software systems for earthquake engineering design and education.

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Full Board

Draft Meeting Report/Minutes

AUGUST 18, 2021





OSHPD Office of Statewide Health Planning and Development

Hospital Building Safety Board

2020 West El Camino Avenue, Suite 800 Sacramento, CA 95833 (916) 440-8453 (916) 324-9188 Fax

www.oshpd.ca.gov/Boards/HBSB/index.html



HOSPITAL BUILDING SAFETY BOARD **Full Board Meeting** Thursday, April 22, 2021

9:00 a.m. - 3:00 p.m.

Teleconference Meeting Access:

HBSB GoToMeeting Full Board Meeting Access Code: 471-655-749

Committee Members Present:

David Bliss. Vice-Chair

Bruce Clark

Deepak Dandekar

Rami Elhassan

Michael Foulkes

Mike Hooper

Scott L. Jackson

David Khorram

Pete Kreuser

Marshall Lew

Roy L. Lopez

Bruce Macpherson

Jim O. Malley

Bruce Rainey

Director- Appointed Ex-Officio Members:

Bert Hurlbut

Michael O'Connor

Consulting Members:

John Donelan

Gary Dunger

John Griffiths

Eric Johnson

Mark Hershberg

Bill Zellmer

OSHPD Staff:

Elizabeth Landsberg, OSHPD Director

Arash Altoontash, FDD Deputy Division Chief

Chris Tokas, FDD Deputy Division Chief

Hussain Bhatia

Lori Campbell

Monica Colosi

Chris Dickey

Mickey Fong

Bill Gow

Jeffrey Kikumoto

Joe LaBrie

Roy Lobo

David Mason

Eric Morikawa

Diana Navarro

David Neou

Cesar Ponce

Carl Scheuerman

Jamie Schnick

Ali Sumer

Richard Tannahill

Nanci Timmins

James Yi, OSHPD Attorney

HBSB Staff:

Ken Yu, Executive Director

Joanne Jolls

Evett Torres

1 1. Welcome and Introductions

- Welcome and introductions of HBSB members and OSHPD Staff
- Suspension of Bagley-Keene Open Meeting Act requirements per Executive Oder N-29-20
- Conduct of Meeting
- 5 David Bliss, Vice-Chair, called the meeting to order. The Committee members and Office of
- 6 Statewide Health Planning and Development (OSHPD) staff introduced themselves. A quorum
- 7 was present.

8 2. OSHPD Update

- 9 **Presenter:** Elizabeth Landsberg, OSHPD Director
- Elizabeth Landsberg introduced herself
- o She has worked in healthcare for over 20-years
- o For 16-years she worked with non-profits advocating for the needs for consumer healthcare
 - Her last position was with the Department of Managed Healthcare
- Program Updates

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- o OSPHD staff continue to support the State of California's response to COVID-19
 - Five percent of OSHPD's Facility Development Division staff are assisting with contact tracing, vaccine rollout, and other COVID-19 response areas
 - Staff continues to assist hospitals with oxygen supply and systems, data functions, reviewing proposed alternate care sites, and other support functions
 - Staff has been assisting local schools and helping them open safely
- State Budget
 - There are no substantive changes to the critical hospital building safety work
 - In the January 2021 Budget Proposal, Governor Newsom proposed a new office called the Office of Healthcare Affordability be housed at OSHPD
 - The functions of the office include:
 - Collect and report data on cost and quality of care
 - Develop cost targets for the healthcare industry
 - Oversee mergers and acquisitions in healthcare when oversight is not available
- The goal of the office:
 - To control costs by measuring quality and equity, promote workforce stability, and promote investments in primary care and behavioral health
 - The new office will have over 100 staff members
 - Governor Newsome's budget also included a proposal to recast OSHPD as a department
 - The proposed new name for OSHPD is Department of Healthcare Access and Information (HCAI)
 - As a new department, OSHPD would gather more workforce data, and create a council to oversee graduate medical education and training

HBSB Full Board Meeting - 04/22/2021

- OSHPD staff continued to telework except field staff
- 2 Staff will continue to telework through the summer of 2021
- 3 o The development of a hybrid work schedule is being discussed
- 4 Discussion and public input
- 5 Dr. Bliss expressed his excitement to have Ms. Landsberg as Director and for future OSHPD
- 6 projects.
- 7 Informational and Action Item
- 8 None
- 9 3. Overview and approval of the December 10, 2020 Full Board draft Meeting
- 10 Report/Minutes
- 11 **Presenter:** David Bliss, Board Vice-Chair
- 12 Discussion and public input
- Dr. Bliss remarked that due to a conflict of interest, he would not be voting on the Microgrid
- 14 White Paper or any related topics.
- 15 **MOTION:** [Macpherson/Jackson]
- 16 The Board voted to accept the December 10, 2020, Full Board draft Meeting Report/Minutes as
- 17 presented.
- 18 Informational Item and Action Item
- 19 None.
- 20 4. Codes and Processes Committee
- Overview and approval of the following draft Meeting Reports/Minutes
- 22 o January 14, 2021
- 23 o March 11, 2021
- 24 **Presenter:** Michael O'Connor, Committee Chair
- 25 **Discussion and public input**
- 26 **MOTION:** [O'Connor/Dandekar]
- 27 The Board voted to accept the January 14, 2021 Codes and Processes Committee draft
- 28 Meeting Report/Minutes as presented.
- 29 Dr. Bliss asked if the task force is governed by the Bagley-Keene Open Meeting Act. Mr.
- 30 O'Connor answered it is not limited by the Bagley-Keene Open Meeting Act but OSHPD has
- 31 limited the task force to two board members.
- 32 **MOTION:** [O'Connor/Rainey]
- The Board voted to accept the March 11, 2021 Codes and Processes Committee draft Meeting
- 34 Report/Minutes as presented.
- 35 Informational Item and Action Item
- 36 None.

5. Energy Conservation and Management Committee

- Overview and approval of the January 21, 2021 draft Meeting Report/Minutes
- 3 **Presenter:** Roy Lopez, Committee Chair
- 4 Discussion and public input
- 5 **MOTION:** [Lopez/ Khorram]
- 6 The Board voted to accept January 21, 2021, Energy Conservation and Management
- 7 Committee draft Meeting Report/Minutes as presented.
- 8 A member of the public commented that the Micro Grid Whitepaper refers hospitals and
- 9 healthcare facilities interchangeably. Mr. Schnick answered that the topic of the whitepaper is
- microgrids for healthcare facilities and does apply to skilled nursing facilities.
- Mr. Tokas stated that the whitepaper is a great accomplishment. It will be used by OSHPD as
- well as other national organizations.
- 13 Informational Item and Action Item
- 14 None.
- 15 6. Structural and Nonstructural Regulations Committee
- Overview and approval of the following draft Meeting Report/Minutes:
- o January 27, 2021
- 18 o March 24, 2021
- 19 Presenter: Rami Elhassan, Committee Chair
- 20 Discussion and public input
- 21 **MOTION:** [Elhassan/Macpherson]
- The Board voted to accept January 27, 2021, and March 24, 2021, Structural and Nonstructural
- 23 Regulations Committee draft Meeting Report/Minutes as presented.
- 24 Informational and Action Item
- 25 None.
- **7. Technology Committee**
- Overview and approval of the February 4, 2021 draft Meeting Report/Minutes
- 28 **Presenter:** Bruce Rainey, Committee Chair
- 29 **Discussion and public input**
- 30 Dr. Bliss asked what amount of power can be delivered over Power over Ethernet (PoE) and are
- there any thoughts regarding 6-gigabyte data speeds. Mr. Rainey noted that PoE can deliver
- power in the 60- to 90-watt range and is capped at 100 watts. In terms of 6-gigabyte data
- 33 speeds, Mr. Rainey suggested that question be asked at the next Technology Committee
- 34 meeting.
- 35 Mr. Griffiths asked if the Technology Committee has discussed cybersecurity; if OSHPD will
- 36 develop a Code Application Notice (CAN) to help guide the community on PoE; and if PoE is
- being considered to power emergency lighting. Mr. Rainey noted that cybersecurity is a topic on

- the next Technology Committee's agenda. Mr. Gow answered that OSHPD is exploring PoE to
- 2 power emergency lighting and guides will be developed.
- 3 **MOTION:** [Rainey/Jackson]
- 4 The Board voted to accept February 4, 2021 Technology Committee draft Meeting
- 5 Report/Minutes as presented.
- 6 [The Board took a short break]
- 7 Informational and Action Item
- 8 None.
- 9 8. Education and Outreach Committee
- Overview and approval of the February 10, 2021 draft Meeting Report/Minutes
- 11 **Presenter:** Mike Hooper, Committee Chair
- 12 Discussion and public input
- 13 **MOTION:** [Hooper/Lopez]
- 14 The Board voted to accept February 10, 2021 Education and Outreach Committee draft Meeting
- 15 Report/Minutes as presented.
- Dr. Bliss mentioned that the California Energy Commission (CEC) and Electric Program
- 17 Investment Charge Program (EPIC) have an interest in the educational component regarding
- microgrids and suggested that OSHPD engage them in the conversation.
- 19 Informational and Action Item
- Reach out to the CEC and EPIC regarding microgrids and education
- 21 9. Inspection Services Unit Update
- Inspection Services Unit to provide an update on accomplishments year-to-date
- 23 Presenter: Joe LaBrie, FDD Inspection Services Unit Supervisor
- 24 Discussion and public input
- 25 A member of the public asked what is OHSPD's opinion on requiring Design Professionals of
- 26 Record (DPOR) to provide quarterly Observation Reports. Mr. LaBrie shared that the
- 27 expectation is that the DPOR would be involved for reasonable diligences to obtain personal
- 28 knowledge. OSHPD does not regulate DPOR's work.
- 29 Mr. Hooper recalled that the Education and Outreach Committee did a training on Inspector of
- 30 Record (IOR) and asked if that training available to the public. Mr. LaBrie mentioned that it is
- available. Also, OSHPD will be having a virtual IOR Field Brief Advice (FBA) on May 19, 2021,
- 32 as well as an FBA 10 on June 10th, 2021.
- 33 Informational and Action Item
- 34 None.
- 35 10. Building Standards Update
- Building Standards Unit to provide an update on accomplishments year-to-date

- 1 Presenter: Richard Tannahill, FDD Building Standards Unit Supervisor
- 2 Discussion and public input
- 3 Mr. O'Connor appreciated all the work that OSHPD has been doing.
- 4 Informational and Action Item
- 5 None.
- 6 11. Structural Services Section Update
- Structural Services Section to provide an update on accomplishments year-to-date
- 8 **Presenter:** Roy Lobo, FDD Principle Structural Engineer
- 9 Discussion and public input
- 10 None.
- 11 Informational and Action Item
- 12 None.
- 13 12. Fire Prevention Unit Update
- Fire Prevention Unit to provide an update on accomplishments year-to-date
- 15 Presenter: Nanci Timmins, FDD Chief Fire Life Safety Officer
- 16 Discussion and public input
- 17 Mr. Jackson asked who OSHPD is coordinating with for fire marshal training. Ms. Timmins
- answered Dana Johnson who is in charge of the program.
- 19 Dr. Bliss suggested OSHPD explore the apps called Discord and Spatial.
- 20 Informational and Action Item
- Explore Discord and Spatial apps
- 22 13. Electronic Services Update
- Update on accomplishments year-to-date
- 24 **Presenter:** Chris Tokas, FDD Deputy Division Chief
- 25 **Discussion and public input**
- [This item was heard with the FDD update]
- 27 Informational and Action Item
- 28 None.
- 29 **14. FDD Update**
- Workload and performance
- Personal changes
- 32 Presenter: Chris Tokas, FDD Deputy Division Chief
- 33 **Discussion and public input**

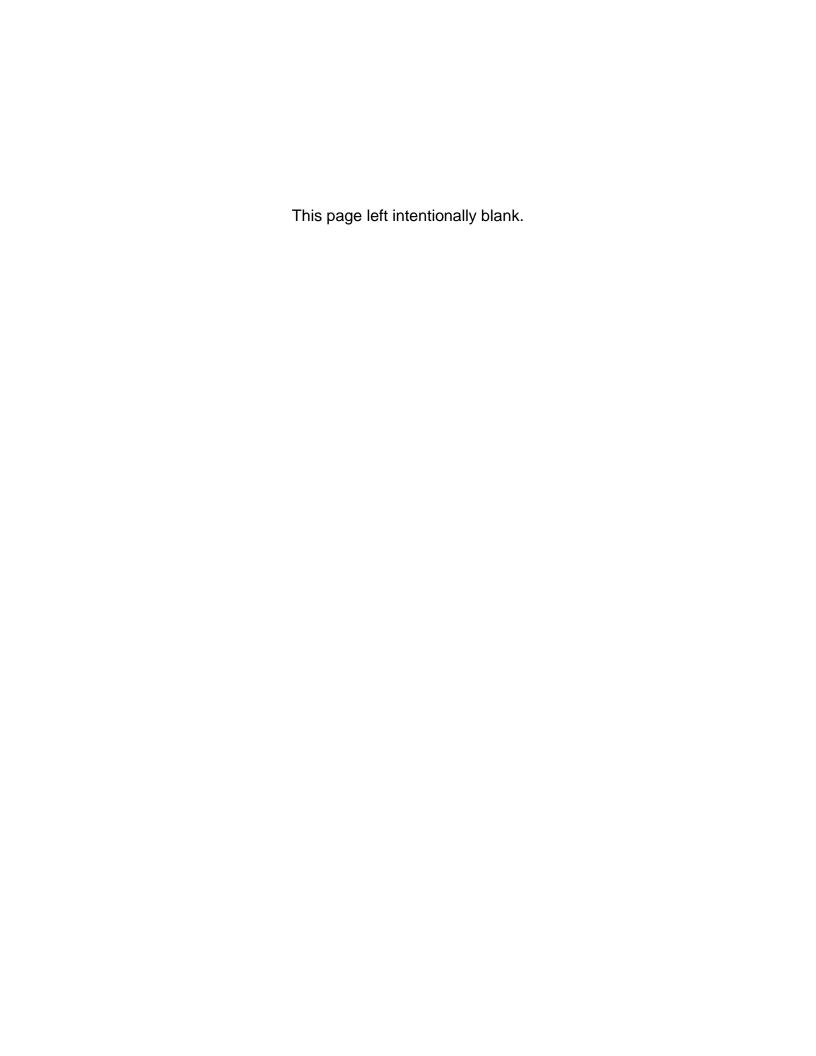
- 1 Ms. Thornburg asked if the time required for review was driven by telework inefficiency, or a
- 2 reflection of the alignment with the new Building Code. Mr. Tokas shared there were a lot of
- 3 issues with submitted designs that did not incorporate the new Building Code. That issue was
- 4 amplified by the COVID-19 pandemic.
- 5 Mr. Kreuser appreciated the presentation.
- 6 Mr. Jackson asked if OSHPD can react to areas in the state that are predicted to be extra dry.
- 7 Mr. Tokas stated that OSHPD will do whatever it takes to address all situations.
- 8 Mr. O'Connor appreciated the presentation. He asked how long has the plan approval date
- 9 estimator been on the website and Mr. Tokas answered three years.
- 10 Informational and Action Item
- 11 None.
- 15. Comments from the Public/Board Members on issues not on this agenda
- 13 Presenter: David Bliss, Board Vice-Chair
- 14 Discussion and public input
- Dr. Bliss announced that the tentative dates for the next Board meetings were August 18, 2021,
- and December 8th and 9th, 2021.
- 17 Informational and Action Item
- 18 None.
- 19 **16. Adjournment**
- David Bliss, Board Vice-Chair, adjourned the meeting at approximately 1:24 p.m.

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Technology and Research Committee

Draft Meeting Report/Minutes

APRIL 29, 2021





OSHPD Office of Statewide Health Planning and Development

Hospital Building Safety Board

2020 West El Camino Avenue, Suite 800 Sacramento, CA 95833 (916) 440-8453 (916) 324-9188 Fax www.oshpd.ca.gov/Boards/HBSB/index.html



HOSPITAL BUILDING SAFETY BOARD **Technology and Research Committee**

Thursday, April 29, 2021 9:00 a.m. - 3:00 p.m.

Teleconference Meeting Access: HBSB GoToMeeting Technology Committee Access Code: 667-620-549

Committee Members Present:

Michael Foulkes, Vice Chair

David Bliss

Deepak Dandekar

Bert Hurlbut

Roy Lopez

Bruce Macpherson

Consulting Members:

Gary Dunger

Presenters:

Becky Clift, TK1SC Mitch Hefter, Signify

Peter O'Connor, Hoefer Welker

Mitchell Ross, Trusted Wireless

Walter Vernon, Mazzetti

OSHPD Staff:

Chris Tokas, FDD Deputy Division Chief

Schani Abeyesundere

Chris Dickey

Shawn Foley

Joe LaBrie

Bill Gow

Eric Morikawa

Ryan Nelson

James Pan

Carl Scheuerman

Jamie Schnick

Richard Tannahill

Nanci Timmins

John Vaught

James Yi, OSHPD Attorney

HBSB Staff:

Ken Yu, Executive Director

Joanne Jolls

Evett Torres

1 1. Welcome and Introductions

- 2 Michael Foulkes, Committee Vice Chair, called the meeting to order. The Committee members
- and Office of Statewide Health Planning and Development (OSHPD) staff introduced 3
- 4 themselves. A quorum was present.

1 Mr. Yu read an announcement regarding COVID-19 and reviewed the meeting conduct.

2 2. Nurse Call Demonstration Project

- The Facilities Guidelines Institute is trending away from planned changes to nurse call
- 4 requirements currently within UL1069
- Discussion will be on a parallel system to code-minimum nurse call systems and the need
- for a demonstration project on the reliability and effectiveness of a parallel system to prove
- 7 the concept.
- 8 Presenter: Walt Vernon, Mazzetti
- 9 Discussion and public input
- 10 Mr. Hurlbut asked when would a demonstration be available and Mr. Vernon answered the
- 11 sooner the better.
- Mr. Dandekar supported the idea but wanted to know what the industry standards are regarding
- the technology, what is the reliability of the technology and can OSHPD conduct a pilot
- program. Mr. Vernon mentioned there are standards for electronic systems but not many. In
- terms of reliability, that would have to be created in the pilot program.
- An interested party mentioned that perfect reliability many not be needed when a good enough
- 17 system is in place. Mr. Vernon agreed that defining reliability will be difficult.
- 18 Mr. Hurlbut noted that OSHPD does have funding to conduct research projects and this may be
- 19 a project that can use those funds.
- 20 Mr. Tokas confirmed that OSHPD will explore a potential pilot program.
- 21 Informational and Action Item
- Explore using OSHPD research project funds to conduct a pilot program OSHPD
- 23 3. Microgrids in Healthcare
- OSHPD task force and path forward for implementation of microgrids in California health
- 25 care
- 26 Presenter: Jamie Schnick, OSHPD
- 27 Discussion and public input
- 28 An interested party noted that hospitals are allowed to operate their emergency power systems
- 29 full time. If and when microgrids are implemented, there will be a distinction between normal
- 30 power and emergency power.
- 31 Mr. Dandekar assumed there would be two separate segments, one for emergency power and
- 32 one for normal power. An interested party answered that the existing system will be a code
- compliant system and that will not be changed. The microgrid will feed through the normal

- system in parallel. If the utility shuts down, the microgrid will become the emergency source of
- 2 power and if that microgrid fails, the code compliant emergency generators will turn on.
- 3 Dr. Bliss noted that his company has been chosen to receive grant funding to build a prototype
- 4 and therefore has a conflict of interest. He mentioned that as part of the California Energy
- 5 Commission (CEC) grant, a technical advisory committee is being formed for the project and
- 6 everyone is welcome to apply.

7 Informational Item and Action Item

- 8 Contact Evett Torres for more information regarding the technical advisory committee all
- 9 Committee Members

10 4. Power Over Ethernet (PoE) Lighting Solutions

- Current code issues with implementation of PoE
- Code changes upcoming through future code cycles
- 13 Presenter: Becky Clift, TK1SC, and Mitch Hefter, Signify

14 Discussion and public input

- An interested party commented that light-emitting diode (LED) lighting uses less power and
- even with a lower PoE value, it can provide just as much light as other types of fixtures. Ms. Clift
- 17 agreed.
- An interested party stated that the entity that is feeding the backup battery is independent from
- 19 feeding the end device. Another problem was infection control when installing the system in an
- 20 existing hospital. If there was an ability to pass through power beyond the light fixture, that
- 21 would mitigate infection control. He mentioned that if all the power distributed to the PoE light is
- 22 not being used, it should be extended to a wireless access point that could provide a micro
- 23 wireless environment for the room. He shared that a hybrid system that contains many
- 24 components in one system works better than a collection of individual ones. Ms. Clift
- acknowledged that the PoE platform can have multiple systems on it. She noted there are
- concerns on the wireless side regarding reliability for life safety systems.
- 27 An interested party wanted to know how much access power is remaining after the lighting
- function is addressed. Mr. Hefter answered that it would not be off the same port but the switch
- 29 will only deliver the necessary power needed.
- 30 Dr. Bliss asked if PoE systems are more or less energy efficient in delivery than conventional
- wires. Mr. Hefter answered they are equal to or slightly more efficient but PoE has a lower fire
- 32 risk.
- 33 Dr. Bliss asked what the cons of the system are and why the concept has not been adopted.
- Ms. Clift agreed that there are many benefits but the technology is still catching up to the
- concept. One concern was mechanical protections and whether the code is being met.
- 36 Dr. Bliss inquired if it would be beneficial to install higher power cabling for PoE now in
- 37 hospitals. Mr. Hefter confirmed that category (CAT) 6 cabling has become the standard and is
- 38 adequate. An interested party stated that faster transmission of data is not necessarily better
- 39 and installing any cables over CAT6 may be overkill. Ms. Clift agreed that larger cables may be

- needed for distribution between switches but cables that go to each individual fixture does not
- 2 need more than CAT6 cabling.
- 3 Mr. Dandekar mentioned that at a previous presentation on PoE, an issue was raised regarding
- 4 heat increases in the ceiling cavity and asked if that has been addressed. Also, will the system
- 5 go above the 90-watts limit. Mr. Hefter noted that the switches in the presentation run between
- 6 480- to 500-watts and the fixtures run at 40-watts. In terms of heat, the fixtures are comparable
- 7 to LED fixtures. The 90-watt limit falls under the Class 2 limit and is an adequate wattage. Ms.
- 8 Clift added that there is no concern regarding heat buildup in the ceiling.
- 9 Mr. Lopez asked if one common local lighting control device can control emergency, critical, life
- safety and normal fixtures. Ms. Clift answered that it has been discussed to have the control and
- distribution be on life safety but further explorations is needed.
- Mr. Gow emphasized that he is concerned about the language in 5.17.80 and Article 700. Mr.
- Hefter stated that Code Making Panel 15 and Code Making Panel 13 will be requesting public
- comment on the conflicts in July 2021. Mr. Gow shared that he is moving forward with an
- OSHPD amendment to the 2022 California Electrical Code to allow PoE wiring not to have
- mechanical protection. Public review will start on May 14, 2021.
- 17 Mr. Gow asked if a formal interpretation was requested for Article 700. Mr. Hefter announced
- that Code Making Panel 15 did not request a formal interpretation.
- 19 Mr. Lopez asked if the current code allows for a device that controls normal and essential
- 20 lighting when it is not part of the power circuiting. Mr. Gow indicated that was the problem and
- that the code has conflicting answers.

22 Informational Item and Action Item

23 • None.

24

5. Wireless Coverage in Stairwells and Elevators

- 25 **Presenter:** Mitchell Ross, Trusted Wireless
- Issues in implementation of wireless connectivity in stairwells and elevator shafts for clinicians
- Traffic segregation techniques for guest access to create a safer environment for patient care requirements

30 Discussion and public input

- Dr. Bliss saw the advantages to extending wireless into stairwells and elevators but cautioned
- having the equipment installed if it would cause a financial burden.
- 33 Mr. Tannahill confirmed that currently there are prohibitions of having equipment in the
- 34 stairwells that do not serve the stairwells.
- 35 Mr. Hurlbut mentioned that Stanford Hospital removed all the fire phone jacks from their
- 36 stairwells but he could not remember what was installed in their place.
- Mr. Macpherson found it beneficial to have wireless in the stairwells and elevators. He
- 38 encouraged OSHPD to explore it further.

- 1 Mr. Ross noted that robotic couriers cannot be used unless there is wireless equipment in
- 2 elevators. Mr. Hurlbut said that the hospital in El Camino is the only hospital that has robotic
- 3 couriers and Mr. Tokas confirmed that is correct.
- 4 An interested party noted that the National Electrical Code (NEC) has accepted a proposal to
- 5 add Class 2 communication wiring to traveling cables.

6 Informational Item and Action Item

Explore installation of wireless devices in elevators and stairwells – OSHPD staff

8 6. Mission Critical Technologies

- 9 **Presenter:** Peter O'Connor, Hoefer Welker
- Illustrate legacy/current definition and approach to "mission critical" systems within codes
- How technologies have evolved to become mission critical by use case
- How current cloud and off-site data centers contribute to the impact and risk related to off premises data processing and storage
- Define process for identifying systems that should be classified as mission critical
- Example of an impact map that illustrates the downstream impacts of making a system resilient

17 Discussion and public input

- 18 Dr. Bliss mentioned that besides natural disasters, hospitals are most concerned about cyber
- 19 security and ransomware. He commented that having a server farm inside a hospital can
- 20 become cumbersome for hospital staff to manage. He presumed that if a hospital has more than
- one outside method of communication, that would limit a total collapse of a system. Mr.
- O'Connor agreed that best practice is to have two diverse paths of communication. He stated
- 23 every system needs diversity and redundancy and that they are not the same. He emphasized
- that mission critical systems need to be fully operational during any scenario.
- 25 Dr. Bliss asked if having an on-site operation system increased or decreased cyber vulnerability.
- 26 Mr. O'Connor did not see a difference in cyber vulnerability if the equipment is hosted on-site or
- off-site. He predicted that a hospital could recover faster from a cyber-attack if the equipment is
- 28 on-site because the outside connection could be severed.
- 29 An interested party mentioned that Scripps in San Diego did a Risk Assessment Review that
- 30 covered a lot of the topics in the presentation. He encouraged the Committee to have a
- 31 conversation with Scripps about their analysis.
- 32 Dr. Bliss announced he fully supported the concept and encouraged OSHPD to pursue it. He
- encouraged Mr. O'Connor to contact American College of Surgeons Committee on Trauma.

34 Informational Item and Action Items

- Contact Scripps for further discussion -OSHPD Staff
- 36 7. Comments from the Public/Board Members on Issues Not on This Agenda
- 37 Presenter: Michael Foulkes, Vice Chair
- 38 None.

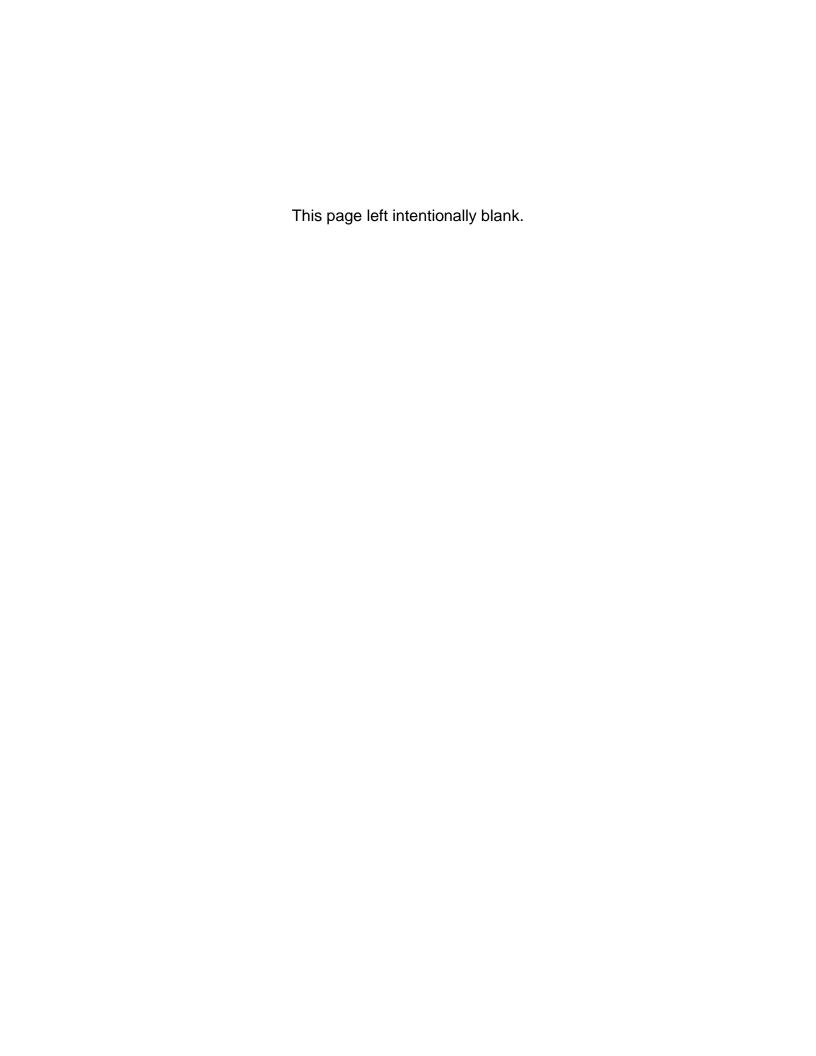
2	Mr. Michael Foulkes, Vice Chair, adjourned the meeting at approximately 12:00 p.m.		

8. Adjournment

Instrumentation Committee

Draft Meeting Report/Minutes

MAY 20, 2021





Office of Statewide Health Planning and Development

Hospital Building Safety Board 2020 West El Camino Avenue, Suite 800 Sacramento, CA 95833 (916) 440-8453 (916) 324-9188 Fax www.oshpd.ca.gov/Boards/HBSB/index.html



HOSPITAL BUILDING SAFETY BOARD Instrumentation Committee

Thursday, May 20, 2021 9:00 a.m. - 3:00 p.m.

Teleconference Meeting Access:

HBSB GoToMeeting Instrumentation Committee Access Code: 211-561-397

Committee Members Present:

Marshall Lew, Chair Bruce Clark, Vice-Chair Rami Elhassan Jim Malley Tim McCrink

Consulting Members:

Hamid Haddadi

OSHPD Staff:

Paul Coleman, FDD Deputy Director Chris Tokas, FDD Deputy Division Chief Hussain Bhatia Erol Kalkan Roy Lobo Carl Scheuerman Ali Sumer Richard Tannahill

HBSB Staff:

Ken Yu, Executive Director Joanne Jolls **Evett Torres**

James Yi, OSHPD Attorney

1. Welcome and Introductions 1

- Marshal Lew, Chair, called the meeting to order. The Committee members and Office of 2
- Statewide Health Planning and Development (OSHPD) staff introduced themselves. A guorum 3
- 4 was present.
- Mr. Yu read the public announcement regarding COVID-19, meeting rules, and procedures. 5
- 2. OSHPD briefing to the Committee regarding the California Strong Motion 6 **Instrumentation Program (CSMIP)** 7
- 8 Status of hospital building selected to be instrumented

- Newly proposed candidate hospital building for CSMIP 1
- 2 Presenter: Erol Kalkan, OSHPD

Discussion and public input 3

- Mr. Lew asked how many of the 88 medical centers that have instruments have free field 4
- stations. Mr. Haddadi answered 59 have free field stations. Mr. Tokas noted that it is not 5
- feasible to install a free field station at some medical centers because of their proximity to roads 6
- and other structures. 7
- Mr. Lew noted that three of the owner-paid instrumentation projects are new construction. He 8
- asked if St. Bernadine Hospital is an SB4C. Mr. Tokas answered that the project is using a 9
- retrofit scheme. 10
- 11 Mr. Clark mentioned it would be helpful to know if there are buildings or ground conditions that
- 12 OSHPD should be addressing. Mr. Tokas indicated that the Committee can discuss any areas
- of concerns or suggest areas that need to be discussed. 13
- 14 Mr. Lew mentioned that Mr. Clark and himself are interested in identifying sites that have poor
- soils and might fall into liquefaction hazard zones. Mr. Tokas indicated that OSHPD has 15
- 16 identified several sites. Mr. Lew suggested that OSHPD overlap the hospital map onto the
- 17 hazard maps to make sure nothing was missed. Mr. McCrink agreed that the analysis was done
- 18 in 2006 and should be done again using the new fault maps.
- Mr. McCrink added that an advisory panel is using the 2009 tsunami inundation maps to identify 19
- 20 new seismic hazard zones. Mr. Bhatia mentioned that on the website is a list of facilities that
- would be impacted by a tsunami. Mr. McCrink shared that American Society of Civil Engineers 21
- 22 (ASCE) is also providing information from their database to integrate into the higher resolution
- 23 maps.
- Mr. Haddadi indicated that there are three groups of recording systems that have gone obsolete 24
- at several OSHPD hospitals. He encouraged the Committee and OSHPD to explore replacing 25
- 26 those recorders. Mr. Lew asked how many Seismological Society of America (SSA) recorders
- 27 are still in the field. Mr. Haddadi estimated 70 to 80 need to be replaced.
- Mr. Clark suggested the Committee receive a brief update on recording systems and new 28
- 29 technology.

Informational and Action Item 30

- Explore sites that have poor soils and fall into a liquefaction hazard zone. 31
- 32 Overlay the hospital map with the hazard maps to make sure no hospitals were missed
- (OSHPD) 33
- Provide higher resolution inundation maps to Mr. Bhatia Mr. McCrink 34
- Investigate replacement of obsolete recorders OSHPD staff 35
- Agendize a discussion regarding recording systems OSHPD staff 36

3. Goals for hospital instrumentation 37

- Utilization of strong ground motion instrumentation records 38
- 39 Adoption of other recording technologies

- Value of real-time applications
- Should all hospital buildings be instrumented?
- Development of white paper for monitoring earthquake recovery
- 4 **Presenter:** Marshall Lew, Committee Chair

5 **Discussion and public input**

- 6 Mr. Tokas agreed that the instrumentation records were once used as research documents but
- 7 OSHPD now uses them for emergency response. He noted that it has been very difficult to find
- 8 funding for the installation of new instruments. He indicated that another problem had to do with
- 9 buildings that are code required for instrumentation and owners only approving the minimum
- amount of instruments installed. Also, some owners wait until the last minute to install the
- instruments. He mentioned that he had created a brochure in the past that laid out the benefits
- of having the instruments, what instruments the owner would have at their facility, and the
- timeframe required to install the instruments. He shared that had worked well for facilities that
- were not code-required facilities.
- 15 Mr. Lew agreed that many owners do no believe that instruments are necessary.
- 16 Mr. Elhassan emphasized that the key point was to make sure the owners understand the
- benefits they will receive if they use instruments. He asked if the instruments can be tied to the
- earthquake early warning system and Mr. Lew noted that the early warning system relied
- 19 heavily on ground stations. Mr. Haddadi noted staff has been exploring various ways to use the
- instruments on the buildings as a method of rapid response to earthquakes in areas where there
- 21 are short timeframes between the earthquake and the station.
- 22 Mr. Haddadi commented that there are instruments that are low-cost and there have been
- 23 discussions of having low-cost sensors on various floors of a facility to fill the gaps where the
- high-quality sensors are not used. He cautioned not to encourage the use of only inexpensive
- 25 instruments.
- Mr. McCrink asked how long does it take hospital owners to receive seismic records that are
- 27 produced from their facility during an earthquake. Mr. Haddadi estimated 1-hour to have the
- data ready to post but it can be expedited. Another way was to have advanced instruments that
- 29 provide data in real-time. He indicated that the infrastructure and technology are available for
- real-time reporting but it was up to OSHPD to decide how much budget is allowed to be used for
- it. Mr. Lew requested information on how much it would cost to implement a real-time system.
- 32 Mr. Tokas commented that there is a new optic sensor being tested that many owners are
- interested in that will provide real-time data.
- Mr. Tokas stated that replacing instruments in an existing building is tough and only the
- 35 controllers can be updated.
- 36 Mr. Lew agreed that explaining to an owner that the data can estimate how much damage has
- been caused is important. If the owners understands that, they may be willing to install more
- instruments. Mr. McCrink agreed. Mr. Haddadi noted that during several discussions on other

- 1 public service projects, damage reports have caused anxiety for owners. To mitigate that
- 2 anxiety, those projects provided a priority for inspection report that did not list damages.
- 3 Mr. Malley mentioned that there is an interest from some hospital owners to install a ShakeCast
- 4 type of system. Mr. Haddadi concurred and shared that there are facilities that use that type
- 5 currently.
- 6 Mr. Lew asked how OSHPD would use real-time data received during an earthquake. Mr. Tokas
- 7 answered that the data would provide agencies with the information they need to execute
- 8 disaster plans. OSHPD continues to explore and integrate innovations in all aspects of the code,
- 9 practices, and policies.
- 10 Mr. Lobo asked if the one-hour process time was the process record or the raw data record. Mr.
- Haddadi mentioned that the entire processing system is being moved to the Cloud which will
- allow faster processing data time. He shared that staff is exploring the best way to expedite
- 13 receiving data from the stations as well.
- 14 Mr. Lew asked if the Caltrans instrumentation system uses real-time instruments. Mr. Haddadi
- 15 explained there are two stages to the project. Stage one was expediting the processing of
- trigger data and stage two was upgrading all instruments to real-time instruments as well as
- 17 process data in real-time.
- Mr. Clark asked if there is a way to pre-process the information, make it available at the hospital
- site close to real-time, and in addition, send the data for more rigorous processing at the center.
- 20 Mr. Haddadi agreed there are ways to provide information quickly to the hospital owner but the
- 21 existing system is not designed to do that.
- 22 Mr. Tokas advised the Committee to start working on a white paper and numerate all direct
- benefits to an owner who installs instruments. Mr. Lew suggested the Committee draft an
- outline first, then lay out the benefits the owner will receive as well as other folks who work for
- the owner.
- 26 Mr. Malley mentioned that there have been discussions with owners about the idea of installing
- 27 inexpensive sensors in their building to received immediate reports. He supported the idea of
- 28 drafting a white paper.
- 29 Mr. Lew suggested that the next code require project install low-cost sensors alongside high-
- 30 quality sensors. He believed that would provide a baseline that could be useful for future
- 31 projects. Mr. Haddadi mentioned four buildings already have high-quality and low-cost
- instruments installed. He suggested having a project include side-by-side instruments and have
- the full spectrum of the motion recorded by two systems. Mr. Tokas mentioned that there are
- 34 several mega hospitals on the drafting board that are located in sensitive environmental areas
- and suggested those hospitals have those requirements.
- 36 Mr. Clark suggested that Mr. Haddadi provide his notes to the Committee on the presentation
- that he did for the California Office of Emergency Services (OES).
- 38 Informational Item and Action Item

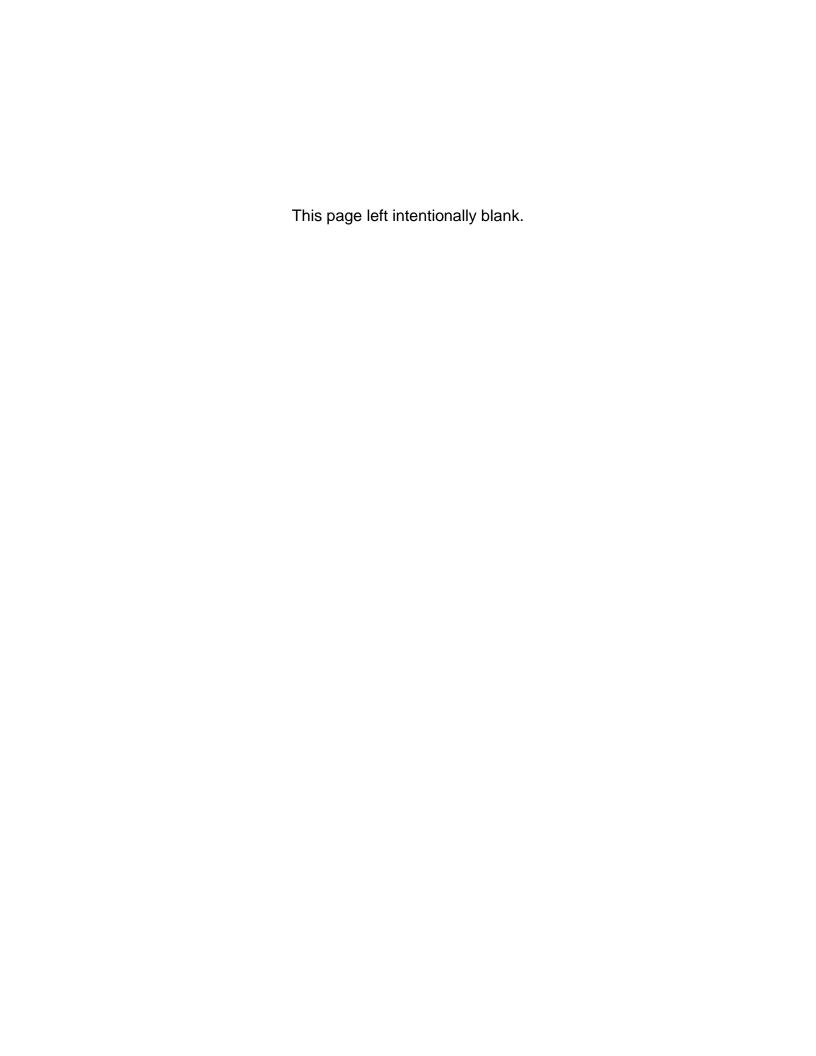
- Consider and investigate low-cost sensors on floors that do not contain high-quality sensors
- 2 OSHPD
- Provide estimations to the Committee on costs for a system that provides real-time data –
- 4 Mr. Haddadi
- Discuss and draft a white paper that lists all the benefits an owner can receive by installing
- 6 instruments at their facilities Instrumentation Committee
- 7 o Draft the outline Mr. Lew
- 8 o Include benefits for the owner and those who work for the owner
- 9 o Include pricing
- Explore installation of low-cost instruments at the new mega hospitals
- Provide notes to Evett Torres regarding the OES presentation Mr. Haddadi
- 4. Comments from the Public/Board Members on issues not on this agenda.
- 13 **Presenter:** Marshall Lew, Chair
- 14 Discussion and public input
- 15 None.
- 16 Informational and Action Item
- 17 None.
- 18 8. Adjournment
- 19 Marshall Lew, Chair, adjourned the meeting at approximately 10:48 a.m.

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Energy Conservation and Management Committee

Draft Meeting Reports/Minutes

JUNE 10, 2021





SHPD Office of Statewide Health Planning and Development

Hospital Building Safety Board

2020 West El Camino Avenue, Suite 800 Sacramento, CA 95833 (916) 440-8453 (916) 324-9188 Fax www.oshpd.ca.gov/Boards/HBSB/index.html



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

Thursday, June 10, 2021 9:00 a.m. - 3:00 p.m.

Teleconference Meeting Access:

HBSB GoToMeeting ECM Committee Access Code: 787-735-909

Committee Members Present:

Roy Lopez, Chair

Scott Jackson. Vice-Chair

Louise Belair **David Bliss**

Deepak Dandekar Michael Foulkes

Bruce Rainey

Consulting Members:

John Griffiths David Lockhart

Presenters:

Todd Price. Enchanted Rock Allan Schurr, Enchanted Rock

OSHPD Staff:

Paul Coleman, FDD Deputy Director

Chris Tokas, FDD Deputy Division Chief

Scott Christman

Chris Dickey

Bill Gow

Dave Mason

Diana Scaturro

Carl Scheuerman

Jamie Schnick

Richard Tannahill

Nanci Timmins

James Yi, OSHPD Attorney

HBSB Staff:

Veronica Yuke (Acting Executive Director)

Joanne Jolls

Evett Torres

1. Welcome and Introductions 1

- 2 Roy Lopez, Chair, called the meeting to order. The Committee members and Office of
- Statewide Health Planning and Development (OSHPD) staff introduced themselves. A quorum 3
- 4 was present.
- 5 Ms. Yuke read the public announcement regarding COVID-19, meeting rules, and procedures.

2. Enchanted Rock Turnkey Microgrid Systems

- Overview of Enchanted Rock Microgrid
- Architecture advantages and use cases
- Citizen Medical Center case study
- Microgrid fleet performance during recent Hurricane Hanna and Winter Storm Uri
- Seismic, California Aire Resources Board, and renewable natural gas readiness for
- 7 California Market
- Dual-purpose microgrid business model advantages
- 9 **Presenter:** Todd Price and Allan Schurr, Enchanted Rock

10 Discussion and public input

- Mr. Schnick stated that there is a concern that natural gas will not be available during an
- earthquake. He asked what other fuel options are there for the microgrid. Mr. Price answered
- that the generators use natural gas as well as propane, compressed natural gas, and liquified
- 14 natural gas.
- 15 Mr. Rainey asked if the revenues presented in the presentation indicate that the units run
- 16 continuously and sell power back to the grid. Mr. Price noted that the units are not continuously
- running. They run during very high valued hours which equated to roughly 100-hours a year in
- 18 the California market.
- 19 Mr. Rainey asked if the microgrid will supplement diesel generators or replace diesel
- 20 generators. Mr. Price replied that the microgrid would likely replace the diesel generators
- 21 because it is more economically efficient. For existing facilities, the microgrid would provide
- partial or full backup power and minimize the number of hours the diesel generator would run.
- 23 Mr. Coleman asked what is the expected lifespan of the gas-driven generator compared to
- 24 diesel. Mr. Price answered that the lifespan of the gas generator is 50,000 hours.
- 25 An interested party asked if diesel generators will still be needed in instant-on cases. Mr. Price
- answered that the model's generators will start an interior load in under 10-seconds. Diesel
- 27 generators will not be needed for new construction, but it was not cost-effective to remove the
- 28 diesel generators in existing facilities.
- 29 Mr. Lockhart asked how many years Enchanted Rock has been in business, if a maintenance
- 30 program is included in an Enchanted Rock contract, if the price for a system includes any
- upsizing in meters and piping for natural gas, and who is the manufacturer who makes the
- 32 engines. Mr. Price answered that Enchanted Rock was formed in 2006, the first system was
- built in 2009, and the technology was shifted to natural gas in 2014. The engine used in the
- 34 generators was a Power Solutions International engine. The pricing of the system does include
- 35 natural gas infrastructure changes. Mr. Schurr answered that the model has a one-time fee cost
- 36 upfront and Enchanted Rock covers all operations, maintenance, insurance, and repairs of the
- 37 system for the length of the agreement.
- Ms. Belair asked how many existing installations have dual fuel installed. Mr. Price answered
- two assisted living facilities and a third is in the design phase.

- 1 Mr. Jackson remarked that administrators look for the dollar amount and the payback on cost
- 2 benefits. He wanted to understand more about paybacks. Mr. Price explained that the one-time
- 3 up-front cost is significantly less than if a customer installs a similar diesel generator. Also,
- 4 Enchanted Rock covers all operation and maintenance costs, and helps the customer avoid
- 5 millions of dollars lost during a grid outage.
- 6 Mr. Lopez asked what Enchanted Rock's approach is to addressing concerns regarding natural
- 7 gas usage in cities that have abandoned using natural gas. Mr. Schurr noted that many local
- 8 ordinances have exclusions for commercial and stand-by uses of natural gas. There is a push in
- 9 the environmental community to minimize investments in new gas infrastructure, but there is an
- 10 acknowledgment that diesel and gas generators cause safety and health hazard.
- 11 Ms. Belair inquired if Enchanted Rock seeks the exceptions from the local jurisdiction or the
- client. Mr. Price replied that Enchanted Rock works with the local jurisdiction.
- 13 Mr. Lopez asked what proactive island mode is. Mr. Price answered that the microgrid would
- 14 fully carry the load until the main breaker could be open to the grid. There would be no
- disruption to the health care facility during the turn-on and shut-off of proactive island mode and
- the microgrid would run for the duration of the public safety power shutoff (PSPS) event.
- 17 Mr. Lopez asked about protective relaying requirements. Mr. Price noted that Enchanted Rock
- works with the local utility and conforms to all local requirements.
- 19 Mr. Lockhart asked who makes the automatic transfer switches and are they included in the
- 20 maintenance package. Mr. Price explained that the automatic transfer switches are from
- 21 Pioneer Controls out of San Diego and they are included in the maintenance package.
- 22 Mr. Lockhart mentioned that his campus contained 6-megawatts worth of generators and
- 23 Enchanted Rock's footprint contained 5-kilowatt per generator. He disclosed the system was not
- 24 adequate for his campus. He asked if Enchanted Rock has explored converting existing
- 25 generator engines for natural gas instead of installing more infrastructure. Mr. Price answered
- 26 no because Enchanted Rock wants everything as standard as possible to keep costs low. He
- 27 predicted it would cost more to modify an existing engine than installing a new system. Mr.
- 28 Schurr added that he had yet to see a space where the system could not fit into an existing
- 29 diesel space.
- 30 An interested party noted that Enchanted Rock uses no grant funds and if the reason was
- 31 because there were none available. Mr. Price responded that the goal was to build a
- 32 sustainable business that did not require outside subsidies.
- 33 Ms. Timmins suggested that Enchanted Rock review the adopted chapters regarding fuel
- 34 storage in the California Fire Code (CFC).

35 Informational and Action Item

36 • None.

37

3. Microgrid as an emergency power source challenges

- Continued discussions with Center of Medicare & Medicaid Services
- That is the second of the second of
- Seismic compliance Special Seismic Certification Preapprovals needed

HBSB Energy Conservation and Management Committee – 06/10/2021

- On-site fuel storage OSHPD working on demand factors
- Next steps
- 3 Presenter: Jamie Schnick, OSHPD

4 Discussion and public input

- 5 Mr. Rainey stated that since the Centers for Medicare & Medicaid Services (CMS) would not be
- 6 exploring the elimination of generators until January 1, 2023, would projects in the design phase
- 7 have to have a microgrid and a generator. Mr. Schnick answered yes. Mr. Rainey mentioned
- 8 that it is difficult for design professional to set up a design alternative plan for power and then
- 9 not present it until after January of 2023.
- 10 A member of the public asked Mr. Schnick what code he was talking about when he said code
- compliance after January 1, 2023. Also, were there any discussions with the California
- Department of Public Health (CDPH) regarding changes to Title 22 to allow microgrids. Mr.
- 13 Schnick answered that National Fire Protection Association (NFPA) 99, the 2021 version,
- 14 allowed microgrids as an emergency power source. The adoption of that particular code will
- take place on January 1, 2023. Projects can summit and receive a permit for a microgrid after
- 16 January 1, 2023. The member of the public summarized that the California Code would be
- aligned so that it is an option, not a requirement for new construction. Mr. Schnick confirmed
- that is correct. Mr. Tannahill confirmed that OSHPD is discussing Title 22 changes with CDPH
- 19 regarding microgrids.
- 20 An interested party asked if OSHPD has thought about possible Alternate Methods of
- 21 Compliance (AMC) that might be issued for projects that are ready to go in the year 2022. Mr.
- 22 Tannahill stated that OSHPD was not limiting the installation of microgrids currently. Many of the
- 23 restrictions had to do with CMS requiring diesel generators.
- An interested party asked for non-acute care spaces that want to utilize a microgrid, would the
- 25 microgrid have to be built in the same footprint as the existing emergency power system until
- 26 NFPA 99 is adopted by CMS. Mr. Schnick answered that a microgrid could be installed along
- 27 with the required backup system. The facility would receive all the benefits of having a microgrid
- and still be code compliant.
- 29 Dr. Bliss explained that the microgrid white paper discussed microgrids as a supplemental
- 30 resource without altering or directly impacting diesel generators. He said it would be
- 31 problematic, as it currently stands, for any project to propose a microgrid that did not involve
- 32 diesel generators and that microgrids could be used to substitute for existing emergency power
- 33 systems in California.
- 34 Mr. Schnick corrected that CMS does not specify what type of fuel the generator has to use.
- 35 Only that there has to be back up generators. Mr. Gow confirmed that is correct.
- 36 Mr. Dandekar asked how a facility assures continuity of a natural gas service. Ms. Timmins
- 37 remarked that storage of natural gas has to do with how to store the fuel safely on-site and
- those parameters will have to be assessed individually.

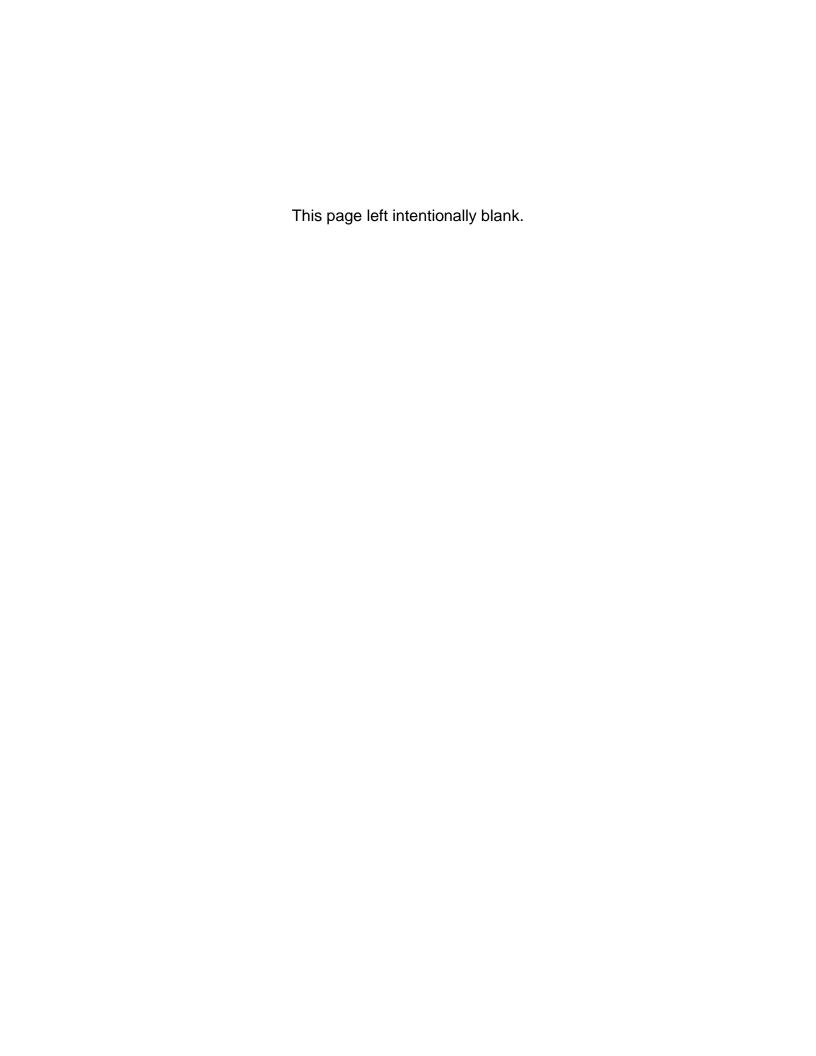
- 1 Ms. Belair mentioned that natural gas is a reliable source for heating a facility without requiring
- 2 any storage to be on site. She commented that maybe there could be an alignment of
- 3 recognizing natural gas as a reliable source rather than requiring onsite storage from a safety
- 4 standpoint. Ms. Timmins agreed, but restated there are concerns regarding earthquakes
- 5 disrupting natural gas distribution lines.
- 6 Informational and Action Item
- 7 None.
- 8 4. "Microgrids on the Move" Virtual Tour
- Kaiser Permanente Richmond Medical Center Microgrid
- 10 Presenter: John Griffiths, CONTECH-California Avenue, will be onsite host
- 11 Discussion and public input
- 12 This item was postponed until the next meeting
- 13 Informational Item and Action Item
- 14 None.
- 5. Comments from the Public/Board Members on issues not on the agenda
- 16 **Presenter:** Roy Lopez, Chair
- 17 7. Adjournment
- 18 Mr. Roy Lopez, Chair, adjourned the meeting at approximately 11:01 a.m.

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Codes and Processes Committee

Draft Meeting Report/Minutes

JUNE 24, 2021





Office of Statewide Health Planning and Development

Hospital Building Safety Board 2020 West El Camino Avenue, Suite 800 Sacramento, CA 95833 (916) 440-8453 (916) 324-9188 Fax www.oshpd.ca.gov/Boards/HBSB/index.html



HOSPITAL BUILDING SAFETY BOARD Codes and Processes Committee

Monday, June 24, 2021 9:00 a.m. – 3:00 p.m.

Teleconference Meeting Access:
HBSB GoToMeeting APCCSD Committee
Access Code: 249-860-413

Committee Members Present:

Michael O' Connor, Chair Roy Lopez, Vice-Chair Louise Belair

Scott Jackson
Bruce Macpherson
Jim Malley

Consulting Member

John Donelan Gary Dunger Mark Hershberg

OSHPD Staff:

Chris Tokas, FDD Deputy Division Chief

Brett Beekman

Bill Gow
Roy Lobo
Dave Mason
Diana Navarro
Diana Scaturro
Carl Scheuerman
Richard Tannahill
Nanci Timmins
James Yi, OSHPD Attorney

HBSB Staff:

Veronica Yuke (Acting Executive Director)
Evett Torres

1 1. Welcome and Introductions

- 2 Michael O' Connor, Chair, called the meeting to order. The Committee members and Office of
- 3 Statewide Health Planning and Development (OSHPD) staff introduced themselves. A quorum
- 4 was present.
- 5 Ms. Yuke read the public advisory regarding COVID-19 and reviewed meeting expectations.
- 2. Review the March 11, 2021, final meeting report/minutes approved at the April 22,
- 7 **2021, Full Board meeting**
- 8 **Presenter:** Michael O'Connor, Committee Chair

1 Discussion and public input

- 2 Mr. O'Connor explained that the item was to review the minutes and no motion for approval was
- 3 needed.

4 Informational and Action Item

5 • None.

6 3. California Building Standards Code Revision Cycle for 202

- Part 1, California Administrative Code
- Part 2, California Building Code, Volume 1 and 2
- 9 Part 10, California Existing Building Code
- 10 Presenter: Richard Tannahill, OSHPD

11 Discussion and public input

- 12 Mr. O'Connor explained that the primary reason that construction is slowed down is lack of
- 13 funding. He asked if there are a lot of requests for extensions relative to healthcare income due
- to COVID-19. Mr. Tannahill answered yes, but many projects that are planned 4- to 5-years out
- delay their projects to avoid meeting current code requirements. Mr. Tokas mentioned that if
- there are hardships, OSHPD will review the request for an extension.
- An interested party asked how is the 10 percent factor determination discussed with the Area
- 18 Compliance Officer (ACO). Mr. Tannahill explained that it will require field reports to be drafted
- and then documents that show the amount of progress. The 10 percent still allows the applicant
- 20 10 years to complete a project.
- 21 A third party asked who makes the determination of viable cause for an extension and what is
- the appeal process for those decisions. Mr. Tannahill explained that if the determination is made
- during plan review, and ACO will make that determination. The applicant would contact OSHPD
- 24 if they wished to file an appeal and if necessary, the applicant can bring up the issue with the
- 25 Hospital Building Safety Board (HBSB).
- 26 **MOTION:** [Donelan/Belair]
- 27 The Committee voted to endorse the proposed amendments to the California Building
- 28 Standards and forward the amendments to the full Board for adoption.
- 29 Mr. O'Connor commented that the proposed amendment to the 2022 code sets a baseline
- 30 expectation. He inquired if the amendments could be presented to the community in the form of
- a FAQ to bring awareness to the change. Mr. Tannahill answered that most likely OSHPD will
- 32 be developing a Policy Intent Notice (PIN).

33 Informational Item and Action Item

- Develop a PIN for amendment 7-129, Time Limitations slide 4
- 35 4. Emergency Design Task Force
- 36 **Presenter:** Chris Tokas and Richard Tannahill, OSHPD

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

3 Discussion and public input

- 4 Mr. O'Connor commented that the advisory guide will be a used a lot and he appreciated the
- 5 Task Force for drafting it.
- 6 An interested party mentioned that alternate care sites are not set up to handle post-acute
- 7 patients. For that reason, there should be some accommodation made for post-acute spaces in
- 8 alternative care sites. He mentioned that several alternate care sites asked California
- 9 Department of Public Health (CDPH) for help to set up post-acute spaces, but there was
- resistance in what those spaces should look like and how they are operated. Mr. Tannahill
- acknowledged those issues have come up and OSHPD will explore them further. During the
- pandemic, OSHPD was informed that more acute patients would remain in facilities and
- alternate care sites would house less acute patients.
- 14 Ms. Belair asked if there is a draft version of the advisory guide available for the Committee. Mr.
- Tannahill answered that the draft will be available in August 2021.
- 16 Ms. Belair requested a quick overview of ventilation guidelines. Mr. Mason noted that not only
- 17 was ventilation being addressed due to the pandemic, but also for fires and smoke. He
- 18 acknowledged that smoke is the most underdeveloped topic and that it can be expensive to
- 19 have carbon filters and other items to handle smoke.
- 20 Ms. Belair asked if a facility follows the advisory guide, will that facility be allowed to keep any
- 21 modifications they have made. Mr. Tannahill clarified that if a facility wants to keep its
- 22 modification in place, it would have to apply for a project. Many modifications are not code
- compliant and they would have to be brought into compliance.
- Ms. Belair noted that some of the items could potentially require a code change because though
- 25 the modification may not be needed during normal situations, rapid response to use those items
- is needed when there is an emergency. Mr. Tokas and Mr. Tannahill agreed. Mr. Mason
- 27 mentioned that many existing guides are used as design guides. He commented that he wanted
- 28 to address medical gas in the current code cycle and suggested the Committee discuss it at a
- 29 future meeting.
- 30 Mr. O'Connor asked if the advisory guide could include best practices to accommodate the
- additional need for oxygen. Mr. Mason agreed there needs to be a lessons learned section in
- 32 the advisory guide.
- Ms. Belair asked if a project is in the design phase and is unaware of the guidelines, is OSHPD
- 34 reviewing those plans and making suggestions based on the advisory guide. Mr. Tannahill
- remarked that he is unaware of that happening. He noted that when the guide is done, OSHPD
- 36 will be conducting webinars and outreach. For any projects that are requesting modifications
- based on the guide, OSHPD staff are assisting those projects.
- 38 Mr. O'Connor suggested the Committee discuss hospital emergency response plans and the
- 39 provisions for decontamination areas at a future meeting. Mr. Tannahill confirmed that the Task
- 40 Force is exploring that area as well.

- 1 Mr. Jackson asked if facilities are required to reach normal operations in a period of time after
- 2 an emergency. Mr. Tannahill noted that OSHPD is not determining how long the recovery
- 3 process is. Mr. Tokas agreed it is based on the emergency event.
- 4 Ms. Scaturro explained that the emergency operations guide is categorized into four sections:
- 5 existing building versus new buildings, and infectious versus non-infectious. Also, in the guide is
- 6 an array of types of hazards including surge, fire, and hazmat. One challenge was OSHPD
- 7 cannot inform health facilities to disregard code requirements during an emergency, but
- 8 healthcare facilities have been doing that to accommodate the influx in patients. The advisory
- 9 guide helps facilities navigate emergencies while keeping modified environments code-
- 10 compliant.
- An interested party inquired if the Task Force is tracking the guide relative to skilled nursing
- facilities and acute care. Mr. Tannahill confirmed that the guide will include specific components
- 13 for skilled nursing facilities.
- 14 Ms. Belair asked if the guide will address any issues for emergency power and Mr. Tannahill
- answered yes, but it is considered less of an issue compared to the other components. Mr. Gow
- mentioned that there were no reports of facilities having power shortages during the pandemic.
- 17 Mr. O'Connor commented that one consideration that was charged to the Committee to explore
- is temporary generators that are brought onto campuses.

19 Informational Item and Action Item

- 20 Explore alternate care sites and post-acute patients.
- Discuss medical gas guidelines.
- 22 Discuss decontamination areas for emergency provisions.

23 5. OSHPD Preapproved Details (OPD)

- Discussion and review of candidate details for OPD program
- 25 **Presenter:** Michael O'Connor, Committee Chair

26 **Discussion and public input**

- 27 Mr. Tokas remarked that OSHPD has OSHPD Preapproval of Manufacturer's Certification
- 28 (OPM) and OSHPD Special Seismic Certification Preapproval (OSP). He stated that
- 29 manufacturers can not submit an OPM. Mr. O'Connor specified that manufactures can submit
- 30 an OPM and he was more interested in feedback from the Committee on how to include
- 31 manufacturers into the OPD program. Mr. Tokas said OPDs have to be agnostic and OPMs are
- 32 specific to a manufacturer. Mr. O'Connor suggested the Committee discuss what is the
- appropriate route as well as discuss any alternate non-proprietaries versions.
- 34 Mr. O'Connor commented that not all telecommunication devices go through the appropriate
- 35 processes in terms of agency review and installation. He predicted having a preapproved form
- 36 for telecommunication devices would help eliminate installations that have not gone through the
- appropriate process. Mr. Tokas supported having preapproved details for telecommunication
- 38 devices.
- 39 Mr. O'Connor suggested a process be established to receive community feedback and possible

- 1 proposals for preapprovals. Then have those reviewed and refined by the Committee. Also, the
- 2 Committee should refine preapproved details that are already in existence.
- 3 Ms. Timmins summarized that she has asked several community members as well as staff to
- 4 provide any engineering judgments (EJ) they see that are reoccurring.
- 5 Ms. Timmins mentioned that OSHPD has structural details that have discrepancies for what is
- 6 needed for fire and life safety versus what is needed for structural. She advised the Committee
- 7 to encompass all conditions, not just one or the other. With the wall detail, she commented that
- 8 it contains many different pieces including wall type and what the wall is being used for.
- 9 Mr. O'Connor agreed that the preapprovals should be compatible in order to avoid an EJ.
- 10 Mr. Macpherson suggested wood framing details. Mr. Hershberg mentioned that many wood
- walls are part of the primary structure and could not have a preapproval. In terms of partitions,
- the OPDs already accounted for attachments to a wood type of supporting structure. Mr.
- 13 O'Connor commented that door frames, reconfigurations for new openings, and anchorage of
- 14 equipment would be useful.
- 15 Mr. Hershberg suggested having an OPD for moveable or mobile equipment that is tethered
- and untethered such as kitchen equipment.
- 17 Mr. Tokas informed the Committee that OHSPD is working on a new program called OSHPD
- 18 Premanufactured Project and System Approval (OPPSA). The program will look at
- 19 prefabrications and the growth of building information modeling (BIM). If any manufacturers are
- interested in looking for a preapproval, they can contact OSHPD. Mr. O'Connor supported
- 21 OSHPD bringing the program to the Committee for discussion.
- 22 Interested parties suggested OPDs for shafts, horizontal use of shaft walls, and L-ratings.
- 23 Mr. O'Connor asked if it is possible to have OPDs in an appendix in the project manuals. Mr.
- Tokas answered it depends on the project. Mr. Tannahill mentioned that OSHPD is reexploring
- 25 the concept. Ms. Timmins commented that even if there are preapprovals, the items may still
- have to be on the plans.

Informational Item and Action Item

- Conduct community outreach and request proposals for possible preapprovals.
 - Collect them and have the Committee review and refine them.
- 30 Explore OPDs for:
- Wood framing details including door frames, reconfigurations for new opens, and anchorage.
- o Moveable or mobile equipment that is tethered and untethered.
- o Shaft and horizontal use of shaft walls.
- o L-ratings
- Bring forward the OPPSA program for the Committee to provide feedback.
- o If any prefabricators are interested in looking for a preapproval, they should contact OSHPD.
- Email any suggested preapprovals to the HBSB email community members and Committee Members.
- 41 **6.**

27

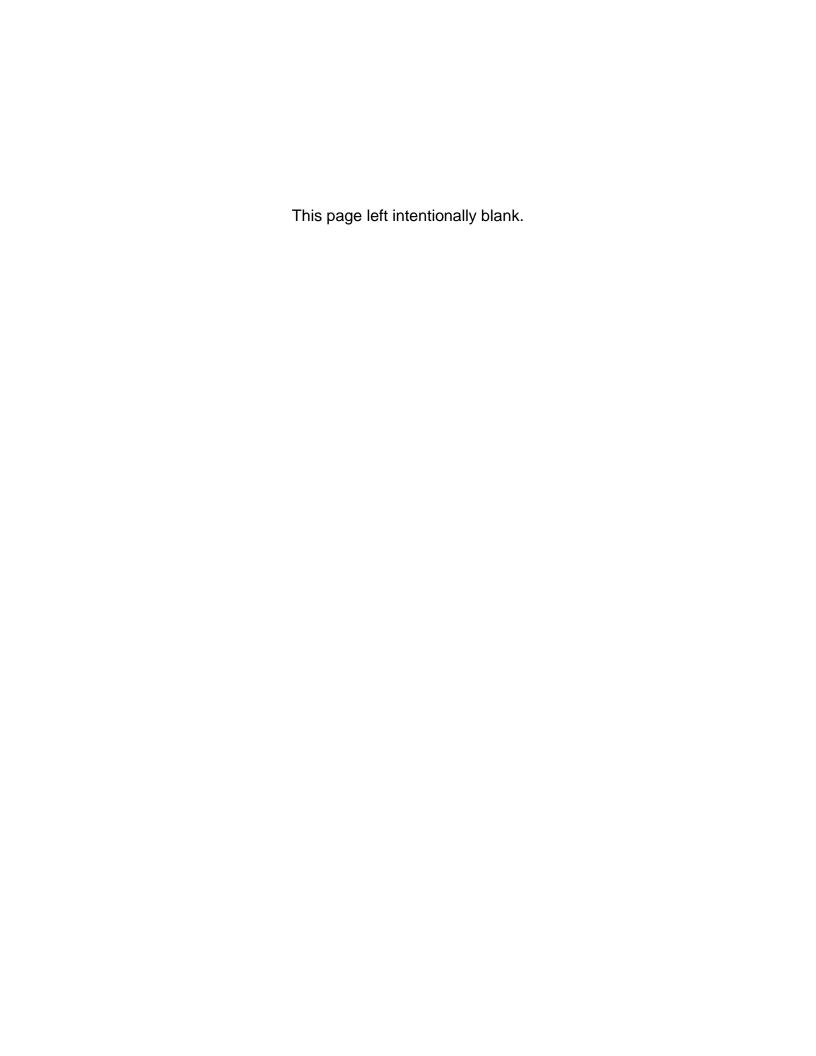
28 29

- 1 Comments from the Public/Board Members on issues not on this agenda.
- 2 Presenter: Mike O'Connor, Chair
- 3 Discussion and public input
- 4 Mr. Lopez requested the Committee or public provide suggestions for topics to discuss at the
- 5 October 7, 2021, Energy Conservation and Management Committee meeting.
- 6 Informational and Action Item
- Email topics to OSHPD staff for the Energy Conservation and Management Committee to
 discuss Committee members and public
- 9 **8. Adjournment**
- Michael O' Connor, Chair, adjourned the meeting at approximately 11:06 a.m.

Board Rosters

2021

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





Office of Statewide Health Planning and Development

Hospital Building Safety Board

2020 West El Camino Avenue, Suite 800 Sacramento, CA 95833 (916) 440-8453 (916) 324-9188 Fax

www.oshpd.ca.gov/Boards/HBSB/index.html



August 5, 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 14, 2021 9 am – 3 pm	Codes and Processes Committee	GoToMeeting: https://www.gotomeet.me/FDDWebi nar/hbsb-apccsd-committee- meeting-january-2021 Or call: +1 (872) 240-3212 Access Code: 986-538-725
January 21, 2021 9 am – 3 pm	Energy Conservation and Management Committee	GoToMeeting: https://www.gotomeet.me/FDDWebi nar/hbsb-ecm-committee-meeting- january-2021 Or call: +1 (872) 240-3212 Access Code: 605-756-949
January 27, 2021 9 am – 3 pm	Structural and Nonstructural Regulations Committee	GoToMeeting: https://www.gotomeet.me/FDDWebi nar/hbsb-snsr-committee-meeting- january-2021 Or call: +1 (669) 224-3412 Access Code: 250-144-469

DATE	MEETING	LOCATION	
February 4, 2021 9 am – 3 pm	Technology and Research Committee	GoToMeeting: https://www.gotomeet.me/FDDWebi nar/hbsb-tech-committee-meeting- february-2021 Or call: +1 (872) 240-3212 Access Code: 340-126-341	
February 10, 2021 9 am – 3 pm	Education and Outreach Committee	GoToMeeting: https://www.gotomeet.me/FDDWebi nar/hbsb-eo-committee-meeting- february-2021 Or call: +1 (571) 317-3122 Access Code: 975-544-997	
March 11, 2021 9 am – 3 pm	Codes and Processes Committee	GoToMeeting: https://www.gotomeet.me/FDDWebi nar/hbsb-apccsd-committee- meeting-march-2021 Or call: +1 (312) 757-3121 Access Code: 813-995-821	
March 24, 2021 9 am – 3 pm	Structural and Nonstructural Regulations Committee	GoToMeeting: https://www.gotomeet.me/FDDWebi nar/hbsb-snsr-committee-meeting- march-2021 Or call: +1 (669) 224-3412 Access Code: 995-836-517	
April 22, 2021 9 am – 4 pm	Full Board	GoToMeeting: https://www.gotomeet.me/FDDWebinar/hbsb-full-board-april-2021 Or call: +1 (571) 317-3122 Access Code: 471-655-749	

DATE	MEETING	LOCATION
April 29, 2021 9 am – 3 pm	Technology and Research Committee	GoToMeeting: https://www.gotomeet.me/FDDWebi nar/hbsb-technology-committee- april-2021 Or call: +1 (224) 501-3412
		Access Code: 667-620-549
May 12, 2021	Education and Outreach Committee	CANCELED
May 20, 2021 9 am – 3 pm	Instrumentation Committee	GoToMeeting: https://www.gotomeet.me/FDDWebi nar/hbsb-instrumentation- committeemay-2021 Or call: +1 (872) 240-3212 Access Code: 211-561-397
June 10, 2021 9 am – 3 pm	Energy Conservation and Management Committee	GoToMeeting: https://www.gotomeet.me/FDDWebinar/hbsb-ecm-committeejune-2021 Or call: +1 (571) 317-3122 Access Code: 787-735-909
June 24, 2021 9 am – 3 pm	Codes and Processes Committee	GoToMeeting: https://www.gotomeet.me/FDDWebi nar/hbsb-apccsd-committee-june- 2021 Or call: +1 (872) 240-3311 Access Code: 249-860-413
June 30, 2021 9 am – 3 pm	Structural and Nonstructural Regulations Committee	GoToMeeting: https://www.gotomeet.me/FDDWebinar/hbsb-snsr-committee-june-2021 Or call: +1 (408) 650-3123
		Access Code: 298-937-869

DATE	MEETING	LOCATION
July 14, 2021 9 am – 3 pm	Education and Outreach Committee	GoToMeeting: https://www.gotomeet.me/FDDWebi nar/hbsb-eo-committee-july-2021
		Or call: +1 (224) 501-3412
		Access Code: 712-342-029
July 22, 2021 9 am – 3 pm	Technology and Research Committee	CANCELED
August 18, 2021 9 am – 4 pm	Full Board	GoToMeeting: https://www.gotomeet.me/FDDWebi nar/hbsb-full-boardaugust-2021
		Or call: +1 (646) 749-3122
		Access Code: 169-172-685
September 23, 2021 9 am – 3 pm	Codes and Processes Committee	TBD
September 29, 2021 9 am – 3 pm	Structural and Nonstructural Regulations Committee	TBD
October 7, 2021 9 am – 3 pm	Energy Conservation and Management Committee	TBD
October 13, 2021 9 am – 3 pm	Education and Outreach Committee	TBD
October 28, 2021 9 am – 3 pm	Instrumentation Committee	TBD
November 10, 2021 9 am – 3 pm	Technology and Research Committee	TBD
December 8, 2021 1 pm – 4 pm	Two-day Full Board (Day 1)	Sacramento: 2020 West El Camino Ave, Ste. 930 Sacramento, CA 95833
December 9, 2021 9 am – 3 pm	Two-day Full Board (Day 2)	Sacramento: 2020 West El Camino Ave, Ste. 930 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, at evett.torres@oshpd.ca.gov or sending a written request to HBSB Staff at 2020 West El

Camino Avenue, Suite 800, Sacramento, CA 95833. Providing your request at least five (5) business days before the meeting will help ensure availability of the requested accommodation

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HOSPITAL BUILDING SAFETY BOARD MEMBERSHIP

Appointed Members (Appointed by OSHPD 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			
OSHPD, Director	Elizabeth Landsberg		
State Fire Marshal	Mike Richwine		
State Geologist	Steve Bohlen (Acting) Tim McCrink/Jennifer Thornburg (Delegates)	N. T. COTT	
Building Standards Commission, Executive Director	Mia Marvelli Michael Nearman (Delegate)	No Term of Office Stipulated	
Department of Public Health, Director	Tomás J. Aragón, M.D., Dr. P.H. Nathaniel Gilmore (Delegate)		
Facilities Development (OSHPD), Acting 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

Benjamin Broder, MD, PhD, CPPS

Kaiser Permanente/So. California

Technology and Research Committee

John Donelan

OSHPD / FDD

- Codes and Processes Committee
- Education and Outreach Committee

Gary Dunger

Cedars-Sinai Health System

- Codes and Processes Committee
- Education and Outreach Committee
- Technology and Research Committee

John Griffiths PE LEED AP

CONTECH-CA

Energy Conservation and Management Committee

Hamid Haddadi

California Geological Survey

Instrumentation Committee

Eric C. Johnson, PE

ECOM Engineering, Inc.

- Energy Conservation and Management Committee
- Technology and Research Committee

David Lockhart CHFM, CEM

Kaiser Permanente, National Facilities Services

Energy Conservation and Management Committee

Michelle Malone, MPA

TruNrth, Inc.

• Structural and Nonstructural Regulations Committee

Tony Shakal

California Geological Survey

• Instrumentation Committee

Bill Zellmer, AIA, CASp

Sutter Health, Physical Access Compliance and Regulatory Affairs

• Education and Outreach Committee

HOSPITAL BUILDING SAFETY BOARD 2021 COMMITTEES

BOARD PROCEDURES COMMITTEE (AD HOC)

Committee Members: OSHPD Representatives:

Michael Foulkes, Chair

Joe LaBrie

Pete Kreuser, Vice-Chair

Louise Belair
Bruce Macpherson
Bruce Rainey

Focus/Goals:

- Meet as needed for:
 - o Policies and Procedures updates
 - o Nominating committee, training/onboarding members

CODES AND PROCESSES COMMITTEE

Committee Members: OSHPD Representatives:

Michael O'Connor, Chair **Brett Beekman** Roy Lopez, Vice-Chair Mickey Fong Louise Belair Bill Gow Roy Lobo Mike Hooper Dave Mason Scott Jackson Pete Kreuser Diana Navarro Diana Scaturro Michele Lampshire **Bruce Macpherson** Richard Tannahill Jim Malley Nanci Timmins

Meeting Dates:

Consulting Members:January 14John DonelanMarch 11Mark HershbergJune 24September 23

Focus/Goals:

- Develop code language with CDPH (ongoing)
 - o Define code disparities
 - o 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
 - 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: OSHPD Representatives:

Mike Hooper, Chair Hussain Bhatia Pete Kreuser, Vice-Chair Monica Colosi Louise Belair Mickey Fong Deepak Dandekar Bill Gow Bert Hurlbut Joe LaBrie Cesar Ponce David Khorram **Bruce Macpherson** Diana Scaturro **Bruce Rainey** Richard Tannahill

Nanci Timmins

Consulting Members: Meeting Dates:

John Donelan February 10

Gary Dunger May 12 CANCELLED

Bill Zellmer July 14
October 13

Focus/Goals:

- Webinars:
 - o Offsite Fabrication
 - o PINs and CANs related to Fire Life Safety, Pre-approvals, and Accessibility Standards
 - o OSHPD 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
 - o Include electronic formats
 - o 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: OSHPD Representatives:

Roy Lopez, Chair
Scott Jackson, Vice-Chair
David Bliss
Deepak Dandekar
Michael Foulkes
Bill Gow
Dave Mason
Diana Scaturro
David Bliss
Jamie Schnick
Richard Tannahill
Nanci Timmins

David Khorram Michele Lampshire Bruce Rainey

Consulting Members: Meeting Dates:

John GriffithsJanuary 21Eric JohnsonJune 10David LockhartOctober 7

Focus/Goals:

- Work with CEC to develop mutually agreeable standards for hospital building energy efficiency in 2022 code cycle
- Identify OSHPD 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 OSHPD to address microgrids, distributed energy resources, and interconnection to normal power versus emergency power

INSTRUMENTATION COMMITTEE

<u>Committee Members:</u> <u>OSHPD Representatives:</u>

Marshall Lew, Chair
Bruce Clark, Vice-Chair
Rami Elhassan
Hussain Bhatia
Roy Lobo
Ali Sumer

Jim Malley

Jennifer Thornburg

Consulting Members: Meeting Dates:

Hamid Haddadi May 20
Moh Huang October 28

Tony Shakal

Focus/Goals:

• Continue working with OSHPD 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: OSHPD Representatives:

Rami Elhassan, Chair Joe LaBrie
Jim Malley, Vice-Chair Roy Lobo
Bruce Clark David Neou
Jamie Schnick
David Khorram Ali Sumer

Marshall Lew Michael O'Connor

Jennifer Thornburg Meeting Dates:

January 27 March 24

Consulting Member:March 24Michelle MaloneJune 30September 29

Focus/Goals:

Support OSHPD with review of code changes (ongoing)

- Support OSHPD 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: OSHPD Representatives:

Bruce Rainey, Chair
Michael Foulkes, Vice-Chair
David Bliss
Deepak Dandekar
Deetak Dandekar
Bert Hurlbut
Hussain Bhatia
Joe LaBrie
Diana Scaturro
Jamie Schnick
Richard Tannahill

Roy Lopez Nanci Timmins
Bruce Macpherson
Michael O'Connor

Meeting Dates:

Consulting Member:February 4Benjamin BroderApril 29

Gary Dunger July 22 CANCELLED

Eric Johnson 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 – Virtual (GoToMeeting) August 18 – Virtual December 8 and 9 – Sacramento