



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



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

**Wednesday May 22, 2024
10:00 a.m. – 4:00 p.m.**

2020 West El Camino Ave, Conference Room 930, Sacramento, CA 95833
355 South Grand Avenue, Conference Room 1901, Los Angeles, CA 90071
Teams Meeting Access; Meeting ID: 288 221 992 180; Passcode: FRAs4n
Call in: (916) 535-0978; Phone Conference ID: 615 154 53#

Committee Members Present

Scott Mackey, Chair
Cody Bartley, Vice Chair
Janice Cheung
Michael Davis
Gary Dunger
Teresa Endres
Bert Hurlbut
Courtney Johnson
Jim Malley

Consulting Members Present

Kelly Martinez
Belinda Young
Bill Zellmer

HCAI Staff Present

Chris Tokas, OSHPD Deputy Director
Richard Tannahill
Arash Altoontash
Paul Coleman
Monica Colosi
Darren Graves
Mia Marvelli
Jamie Schnick
Nanci Timmins
John Gray, Attorney

HBSB Staff Present

Veronica Yuke, Acting Executive Director
Marcus Palmer
Evet Torres

- 1 **1. Call to Order and Welcome**
- 2 **Facilitator:** Scott Mackey, AIA, NCARB, APEC, Design Manager, Hensel Phelps;
- 3 Committee Chair
- 4 Mr. Mackey called the meeting to order at 10:00 a.m. and welcomed attendees.
- 5

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

2 **Facilitator:** Veronica Yuke, Supervisor, HCAI; Acting Executive Director

3 Ms. Yuke conducted the roll call, confirming a quorum, and outlined meeting
4 expectations and rules of engagement for both in-person and virtual attendees.

5
6 **3. Review of Committee-supported 2024 accomplishments**

7 **Facilitators:** Scott Mackey; Teresa Endres, AIA, ACHA, EDAC, AAH, Senior Associate,
8 Medical Planning Director, Taylor Design, Committee Member; and Jamie Schnick,
9 Senior Electrical Engineer, HCAI

10 Mr. Mackey highlighted the committee's accomplishments in 2024, including
11 participation in the OSHPD 2024 International Summit and Exhibition on Health Facility
12 Planning, Design, and Construction, where key presentations were made on the
13 OSHPD emergency design guide and California's microgrids.

14
15 **4. and 5. Update on the [Design Guide for Working on Projects under OSHPD](#)
16 [Jurisdiction – Tips from the Experts](#) and [Design Guide for Planning and](#)
17 [Preparing for Disasters](#)**

18 **Facilitators:** Paul Coleman, Senior Architect, HCAI; and Mia Marvelli, Architect,
19 Supervisor, HCAI

20 Ms. Marvelli announced the successful publication of the *Design Guide for Projects*
21 *under OSHPD Jurisdiction*, and the *Design Guide for Planning and Preparing for*
22 *Disasters*, highlighting the significant effort involved and the addition of a master
23 glossary on the website. She indicated that advertisements for these guides have been
24 posted.

25 **Committee Comments**

26 Mr. Mackey thanked Mr. Coleman and Ms. Marvelli for their exceptional work and
27 leadership in updating and publishing the valuable Design Guide documents,
28 highlighting their importance, and encouraging widespread use through the website.

29
30 **6. Update on the Policy Intent Notice (PIN) 50 – Integrated Review webinar**

31 **Facilitator:** Diana Navarro, Supervisor, HCAI

32 Ms. Navarro announced the tentative date of September 25, 2024, for the PIN 50
33 Integrated Review webinar, awaiting final confirmation. The webinar will cover the PIN's
34 development, project requirements, and collaborative review processes, with sample
35 projects and tools showcased. Additionally, starting September 5, tips of the day will be
36 published to introduce the webinar and provide registration links.

1 **Committee Comments**

- 2 • Mr. Mackey asked if there were other ways to broadcast the webinar to the general
3 public beyond the Tip of the Day. Ms. Navarro responded that they could use the
4 main distribution through HBSB and invited Mr. Tokas to elaborate.
- 5 • Mr. Tokas explained that there are several channels available, including a
6 Listserver with about 6,000 subscribers, as well as LinkedIn, CIA, CX, and other
7 platforms for broader advertisement.
- 8 • Mr. Mackey inquired about the process for promoting events through organizations
9 like AIA and DBIA. Mr. Tokas replied that although there is not a formalized
10 process, they forward announcements to these organizations for their newsletters
11 and utilize every possible channel to promote their events.
12

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

14 **Facilitators:** Cody Bartley, DPR Construction, Committee Vice Chair; and Teresa
15 Endres

16 Mr. Bartley noted that the subcommittee met on May 8, 2024, to refine the webinar
17 slides and messaging, with the final run-through scheduled for June 11, and the webinar
18 set for June 25.

19 Mr. Tokas thanked the subcommittee for their extensive work, emphasizing the value
20 and high public interest in the upcoming webinar.

21 **Committee Comments**

- 22 • Mr. Mackey expressed enthusiasm for the webinar, commending the effort and
23 content, and noted the public's anticipation and the positive impact on building
24 practices.
- 25 • Ms. Endres asked about advertising the webinar to AIA chapters. Ms. Marvelli
26 responded that the flyer and AIA units request are pending but should be ready by
27 the end of the week.
28

29 **8. Creation of an “Island Hospital Concept” Subcommittee**

30 **Facilitator:** Scott Mackey and Jamie Schnick

31 Mr. Schnick discussed the motivations for exploring an island hospital concept,
32 emphasizing rising utility costs, reliability concerns due to natural disasters and grid
33 stress, and the increasing demand on the electrical grid from electric vehicles and
34 growth. He highlighted the need for hospitals to gain control over their utility services to
35 ensure consistent and reliable power. Mr. Schnick also discussed the evolution of
36 hospital energy systems from traditional utility and diesel generators to more advanced
37 microgrid configurations, highlighting examples such as Kaiser San Marcos and Valley

1 Children's, where microgrids enable hospitals to operate seamlessly during utility
2 outages.

3 Marc Hoffman highlighted the economic benefits of adopting renewable energy and
4 storage solutions for hospitals, noting that the cost of power in California is escalating
5 and green energy has become more economical. He pointed out the challenge of
6 managing integrated technologies and ensuring reliability when issues arise, as
7 traditional single-source utility management is simpler. Mr. Hoffman also focused on the
8 critical issue of power quality in microgrid and off-grid systems, explaining how
9 fluctuations in renewable energy sources and load demands can impact power quality,
10 potentially leading to equipment failures and increased energy costs.

11 David Bliss explained the diverse levels of energy independence for hospitals, from
12 supplemental resources to full utility independence. He discussed conventional backup
13 systems like diesel generators and introduced the concept of microgrids, which combine
14 various energy resources to support hospital operations during outages. Dr. Bliss
15 showcased examples of hospitals using these systems and discussed the technological
16 and regulatory challenges involved.

17 Duc Bui elaborated on the design and operation of microgrids, using a specific hospital
18 project as a case study. He explained how the microgrid at this hospital, featuring
19 Bloom Energy fuel cells, operates independently of the utility grid during outages. Bui
20 also noted the significant cost savings and operational benefits achieved through
21 microgrids, including reduced dependency on utility power and lower energy costs.

22 **Committee Comments**

- 23 • Mr. Tokas expressed appreciation to the board for quickly reaching this point and
24 emphasized the need to disseminate information about energy independence and
25 redundancy for hospitals. He proposed creating a white paper to outline various
26 options, to be reviewed by the subcommittee, the committee, and then the full
27 board before publication, considering the mandates and deadlines ahead.
- 28 • Ms. Yuke inquired about the need to approve the creation of the subcommittee
29 listed as an action item. Mr. Tokas clarified that the item should be transferred to
30 the Energy Conservation and Management Committee's agenda, as it falls under
31 their charge rather than the current committee. Mr. Mackey agreed to keep the
32 topic on the agenda for updates and public outreach through the current
33 committee.

34 **Public Comments**

- 35 • An Interested Party asked about the concerns regarding using Bloom Energy fuel
36 cells powered by natural gas as part of the microgrid strategy for island hospitals,
37 especially considering the move away from natural gas and the need for
38 infrastructure updates. Mr. Bui responded by explaining that while natural gas is
39 currently used, Bloom Energy is transitioning to hydrogen, which involves

1 converting natural gas to hydrogen for the fuel cells. He mentioned that future
2 designs might involve using hydrogen directly instead of natural gas. Mr. Hoffman
3 added that hydrogen fuel cells have advantages, such as quick reaction times to
4 load changes, but the main challenge is securing a sufficient supply of hydrogen.
5 He noted that the infrastructure for natural gas is well-established, but the shift to
6 hydrogen will require addressing supply chain issues.

- 7 • An Interested Party acknowledged the current natural gas infrastructure and
8 raised concerns about regulations and the potential need for Bloom Energy to find
9 ways to distribute hydrogen. Mr. Bui mentioned ongoing efforts to generate
10 hydrogen on-site using DC power to split hydrogen and oxygen, aiming to reduce
11 costs over time. Mr. Schnick highlighted the potential of distributed hydrogen
12 resources but noted the challenges such as hydrogen embrittlement of pipelines.
13 He also mentioned other alternatives like ammonia and offered to discuss the
14 topic further offline.

15

16 **9. California Administrative Code Training webinar**

17 **Facilitators:** Monica Colosi, Compliance Officer, HCAI, Darren Graves

18 Mr. Mackey highlighted the necessity of the training to address gaps in professionals'
19 familiarity with the administrative code and expressed full support for the initiative.

20 Mr. Graves highlighted that the training webinar aims to improve understanding and
21 application of the California Administrative Code among design professionals, including
22 a two-part webinar series and subsequent examinations for certification. The first
23 webinar is scheduled for June 6th, and the second for July 11th, with exams in August
24 and January, offering continuing education credits and certification listing on the HCAI
25 website.

26 **Committee Comments**

- 27 • Mr. Mackey asked about the timeframe and expiration date for the certificate,
28 suggesting it should be updated based on new code cycles. He also inquired
29 about potential costs associated with attending the webinars and suggested
30 distributing flyers through various organizations to reach a broader audience.
31 Mr. Graves explained that the certificate issuance date would indicate its
32 relevance, with the option to retake the test for a more current certificate. He
33 confirmed there are no costs for the webinars, and both Mr. Graves and
34 Ms. Colosi agreed to consider distributing flyers through other organizations for
35 wider reach.
- 36 • Ms. Martinez suggested renaming the certification to "Construction Administration
37 Proficiency" to be more inclusive and asked if there would be a fee for the written
38 exam. Mr. Graves confirmed there would be no fee for the current exam cycle.

1 Ms. Colosi added that the exams would not be open book, and they valued the
2 suggestion to rename the certification.

- 3 • Mr. Mackey asked a follow up question about the administration method for the
4 exam, specifically if it would be conducted online. Ms. Colosi clarified that the
5 exam would be administered in-person at their offices in Sacramento and Los
6 Angeles, following a process similar to the IOR certification, with no use of
7 computers.

9 **10. Securing American Institute of Architects (AIA) continuing education unit** 10 **(CEU) credits**

11 **Facilitator:** Scott Mackey

12 Mr. Mackey discussed the process for securing continuing education unit (CEU) credits
13 for webinars and seminars, emphasizing the need to develop content thoroughly and
14 submit it in advance for approval by organizations like AIA and DBIA to ensure
15 attendees can easily earn CEUs.

16 **Committee Comments**

- 17 • Mr. Tannahill commented that previous efforts to secure AIA credits were time-
18 intensive, requiring a full-time person, which led to a shift to self-reporting. He
19 noted that they preregister with the AIA and provide attendee information ahead of
20 time, but individual attendees must self-report if they share a login.
- 21 • Mr. Mackey inquired about the necessity of a full-time person during the initial
22 process. Mr. Tannahill clarified that the initial process was cumbersome and
23 required extensive follow-up, prompting the shift to self-reporting, which has
24 eased the burden.
- 25 • Mr. Zellmer asked whether the self-reporting process includes a certificate for
26 attendees and if it has been pre-vetted and approved by the AIA. Mr. Tannahill
27 confirmed that attendees who register individually receive a certificate, though
28 only one certificate per login is issued, and it was pre-vetted and approved by the
29 AIA.
- 30 • Ms. Marvelli highlighted the challenges of becoming a certified trainer with the AIA
31 and explained the practice of notifying AIA about webinars, providing criteria, and
32 attendee lists for approval.
- 33 • Mr. Zellmer acknowledged that the process is already in place and questioned
34 why HCAI is not a certified training provider for all organizations. Ms. Marvelli
35 explained that bandwidth constraints prevent them from becoming certified
36 trainers for all organizations and noted that some organizations charge for CEUs,
37 which HCAI does not do.

- 1 • Mr. Mackey appreciated the information and stated that self-reporting is still
2 appropriate. He suggested informing organizations about events to streamline the
3 process and offered to explore the possibility of HCAI becoming a certified trainer
4 with the AIA if it does not burden the staff.

6 **11. Prioritize development of future educational programs:**

7 **Facilitator:** Scott Mackey

- 8 • **Classification of Imaging Procedures into Class 1, 2, and 3**

- 9 ○ Mr. Mackey asked who would be assigned the responsibility of classifying
10 imaging procedures and how the coordination should be managed,
11 suggesting either a subcommittee or staff coordination. Mr. Tannahill
12 responded that it was premature to pursue this task as they were still working
13 with the CDPH and national bodies to solidify classifications. He
14 acknowledged that progress was being made but did not provide a specific
15 timeline. Ms. Endres asked if there was an estimated duration for this
16 process, to which Mr. Tannahill replied that they were aiming to expedite it,
17 hoping for progress in months rather than years.

- 18 • **Revisiting "Inspect-to-Pass" Approach to Field Inspections**

- 19 ○ Mr. Mackey asked if there was interest or focus on developing the "Inspect-to-
20 Pass" concept through staff efforts. Michael Davis mentioned that he had
21 gathered substantial information on this topic and needed to determine the
22 best format for presenting it. He volunteered to present and expressed a
23 desire for Joe LaBrie to co-present to lend authority to the presentation.
24 Mr. Tokas emphasized the importance of this topic for dispelling
25 misconceptions and suggested starting with webinars, followed by in-person
26 meetings to proactively address construction issues. Bert Hurlbut added that
27 the presentation should target owners more than inspectors to garner support
28 for quality improvements. Mr. Mackey sought consensus on Mr. Davis
29 coordinating with Mr. LaBrie. Mr. Tokas agreed, noting that both perspectives
30 were essential.

- 31 • **OSHPD 6 Rollout**

- 32 ○ Mr. Mackey requested an update on the rollout plan for OSHPD 6.
33 Mr. Tannahill stated that a webinar would be developed with the help of
34 Ms. Marvelli, acknowledging the need for clarification. Ms. Marvelli mentioned
35 that a webinar was scheduled for June 26th to cover code updates, including
36 OSHPD 6, and they planned to address questions and provide further
37 clarifications in a fall webinar. Mr. Tokas added that the June seminar would
38 focus on the environment, with design specifics to be covered later in the
39 year.

1 • **Tips on How to Work with HCAI in the Field**

- 2 ○ Mr. Mackey asked about the next steps for moving forward with providing tips
3 on working with HCAI in the field. Mr. Tokas indicated that field operations
4 were under ISU and that Mr. LaBrie would coordinate this effort. He
5 suggested using a webinar format to reach a wider audience and reinforce
6 the information provided in past seminars.
- 7 ○ Ms. Endres inquired about the possibility of a fall seminar. Mr. Tokas
8 mentioned that the schedule was full, so it was undecided, but possibly next
9 year. Mr. Mackey confirmed they would coordinate with Mr. LaBrie and
10 recognized the importance of this information for the public.

11 • **Working with Photovoltaics, Microgrids, and Battery Systems**

- 12 ○ Mr. Mackey asked if working with photovoltaics, microgrids, and battery
13 systems was an additional topic or if it was already covered. Mr. Tokas
14 responded that this topic was already being addressed through the fully
15 electrified hospital initiative and ongoing educational efforts, and no separate
16 topic was needed until the white paper on the island hospital was completed.

17 • **How to Write a Functional Program and Operational Program**

- 18 ○ Mr. Mackey inquired about simplifying the process of writing a functional and
19 operational program for approval by the California Department of Public
20 Health (CDPH). Mr. Tokas emphasized the importance of this topic and asked
21 Mr. Tannahill to discuss their vision.
- 22 ○ Mr. Tannahill explained that they were rewriting the requirements to simplify
23 them, aiming to avoid overly detailed or minimal functional programs.
24 Ms. Marvelli added that they were revising regulations and proposed forming
25 a working group that would include a CDPH contact and suggested involving
26 their compliance officer.
- 27 ○ Ms. Endres volunteered for the working group and recommended including
28 Ms. Martinez for her expertise.

29 • **Develop a Formal Design-Professional Mentorship Program with HCAI**

- 30 ○ Mr. Mackey asked about the vision for a formal design-professional
31 mentorship program with HCAI. Mr. Tokas acknowledged the importance of
32 the mentorship program and noted that it required thorough discussion,
33 indicating that this topic would be addressed later.

34 **12. Comments from the Public/Committee Members on Issues not on this Agenda**

35 **Facilitator:** Scott Mackey

36 **Committee Comments**

- 37 • Ms. Endres commented on how to amplify the message of educational opportunities
38 within their networks and inquired about the next steps for creating a standard. Mr.
39 Tokas responded that a permanent contact person from each organization was
40 needed for effective communication.

- 1 • Mr. Zellmer suggested the possibility of a bulletin board for upcoming seminars on
2 OSHPD's website. Mr. Tokas cautioned against endorsing external seminars and
3 noted the importance of careful consideration.
- 4 • Mr. Mackey concluded that they should identify key individuals in various
5 organizations to promote events, acknowledging the potential for redundant emails
6 but emphasizing better dissemination of critical information.

7 **13. Adjournment**

8 Mr. Mackey adjourned the meeting at 12:50 p.m., thanking everyone for their
9 participation and noting the value of the information shared.

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