



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



AMENDED

Hospital Building Safety Board Full Board Meeting

AGENDA

December 11, 2024

1:00 p.m. – 4:00 p.m.

****Please note late start time****

December 12, 2024

9:00 a.m. – 3:00 p.m.

****Please note early start time****

The Board may not discuss or act on any matter raised during the public comment section that is not included on this agenda, except to place the matter on a future meeting agenda. (Government Code §§ 11125, 11125.7, subd. (a).)

Location:

[2020 West El Camino Avenue, Suite 900, Sacramento, CA 95833](#)

[Day 1 Teams Meeting Access](#); Meeting ID: 220 295 784 75; Passcode: 8opfX7

Call in: (916) 535-0978; Phone Conference ID: 477 019 429#

[Day 2 Teams Meeting Access](#); Meeting ID: 248 013 877 553; Passcode: aSrkTQ

Call in: (916) 535-0978; Phone Conference ID: 992 396 105#

- Item #1 Call to Order and Welcome
*Facilitator: Louise Belair, PE, LEED AP, Senior Vice President, WSP;
Board Chair (or designee)*
- Item #2 Roll Call and Meeting Advisories/Expectations
- Determination of Quorum
 - Conduct of Meeting
- Facilitator: Veronica M. Yuke, Manager, HCAI; Executive Director (or designee)*

Item #1

Call to Order and Welcome

*Facilitator: Louise Belair, PE, LEED AP, Senior Vice President, WSP;
Board Chair (or designee)*

Item #2 Roll Call and Meeting Advisories/Expectations

- Determination of Quorum
- Conduct of Meeting

Facilitator: Veronica M. Yuke, Manager, HCAI; Executive Director (or designee)

Item #3

Department of Health Care Access and Information (HCAI) Update

- HCAI Update
- Discussion and public input

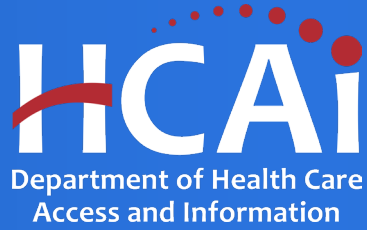
Facilitator: Elizabeth Landsberg, Director, HCAI (or designee)

Item #4

Overview and approval of the August 15, 2024, draft Meeting Report/Minutes

- Discussion and public input

Facilitator: Louise Belair (or designee)



Hospital Building Safety Board

Report by
Louise Belair, Board Chair

BOARD MEMBERS Present:

James O. Malley – Board Vice-Chair

Cody Bartley, David Bliss, Janice Cheung, Michael Davis, Gary Dunger, Teresa Endres, Michael Foulkes, John Griffiths,
Martin Hudson, Scott Mackey

DIRECTOR APPOINTED EX-OFFICIO MEMBERS Present:

Bert Hurlbut, Michael O'Connor

STATUTORY EX-OFFICIO MEMBERS Present:

Elizabeth Landsberg, HCAI Director; Chris Tokas, OSHPD Deputy Director; Irina Brauzman, Building Standards Commission (Delegate),
Executive Director; Nathaniel Gilmore, Department of Public Health (Delegate); Jennifer Thornburg, State Geologist (Delegate)

HCAI STAFF Present:

Joe Labrie, Roy Lobo, Mia Marvelli, Jamie Schnick, Nanci Timmins

HBSB STAFF Present:

Veronica Yuke, Executive Director, Marcus Palmer, Evett Torres

MEETING REPORT:

Meeting Date: August 15, 2024

Meeting Date: 08/15/2024

OVERVIEW OF TOPICS

- **Topic 1: Call to Order and Welcome**
 - Louise Belair, Board Chair called the meeting to order.
- **Topic 2: Roll Call and Meeting Advisories/Expectations**
 - Quorum was established.
 - Veronica Yuke, Executive Director read the public announcement regarding meeting rules and procedures.

Meeting Date: 08/15/2024

OVERVIEW OF TOPICS

- **Topic 3:** HCAI Update – Elizabeth Landsberg, HCAI Director / Scott Christman, HCAI Chief Deputy Director
 - Board Members acknowledgements:
 - Carl Newth sworn in as new HBSB Member – Local Building Official Member Representative
 - David Bliss – Public Member Representative transition to director appointed Ex-Officio Member role
 - James Malley – second term appointment as Structural Engineer Member Representation.

Meeting Date: 08/15/2024

OVERVIEW OF TOPICS

- **Topic 3: HCAI Update (Continued)**

Ms. Landsberg gave the following Department Updates:

- Budget and Legislative Updates:
 - Discuss the significant budget cuts faced by California specifically the \$746M reduction for the Health Workforce Development .
 - Delay of health worker minimum wage increase.
 - Legislative actions related to seismic standards.
- Healthcare Affordability Board Meeting:
 - Preview of the upcoming meeting – focus on regional variations in HC prices (Monterey County).

Meeting Date: 08/15/2024

OVERVIEW OF TOPICS

- **Topic 4:** Nominations for HBSB Chair and Vice-Chair Kick-Off – Michael Foulkes & Michael O’Connor, Nominating Committee Members
 - Recommendation by nominating committee of Jim Malley for Chair and Scott Mackey for Vice-Chair for 2025 – 2026.
 - No additional nominations were made from the floor.

Meeting Date: 08/15/2024

OVERVIEW OF TOPICS

- **Topic 5:** Overview and Approval of April 18, 2024, Full Board draft Meeting Report/Minutes – Louise Belair, Board Chair
 - Highlights were:
 - HCAI Update by Elizabeth Landsberg:
 - Budget shortfall
 - Loan approval to Madera Hospital.
 - Swearing in new HBSB Board members:
 - Jennifer Cox, Public Member representative
 - Courtney Johnson, Engineering Geologist representative

Meeting Date: 08/15/2024

OVERVIEW OF TOPICS

- **Topic 5: Overview and Approval of April 18, 2025, Full Board draft Meeting Report/Minutes (Continued)**
 - Committee Reports Overview & Approval:
 - Board Procedure – December 5th, 2023
 - Code and Processes – January 10, 2024 & February 21, 2024
 - Instrumentation – January 25, 2024
 - Structural and Non-Structural Regulations – March 6, 2024
 - Education and Outreach – February 8, 2024
 - Offsite Fabrication/Preassembled Components Webinar – February 28, 2024
 - Appoint a Nominating Committee for Chair and Vice- Chair Elections

Meeting Date: 08/15/2024

OVERVIEW OF TOPICS

- **Topic 5:** Overview and Approval of December 5-6, 2023, Full Board draft Meeting Report/Minutes (Continued)
 - OSHPD Update highlights were reviewed.
 - Building Standards Unit Update highlights were reviewed.
 - Inspection Services Unit Update highlights were reviewed.
 - Fire Prevention Unit Update highlights were reviewed.
 - Structural Services Section Update highlights were reviewed.
 - Review of motions.

Meeting Date: 08/15/2024

OVERVIEW OF TOPICS

- **Topic 6:** Offsite Fabrication/Preassemble Components Webinar Development Subcommittee – Cody Bartley, Subcommittee Chair

- Overview and Approval of the March 26, 2024 draft meeting report/minutes.

Meeting highlights:

- Review of webinar content. FLSO considerations.
- Finalize speaking roles.

- Overview and Approval of the May 8, 2024 draft meeting report/minutes.

Meeting highlights:

- Refine speaking roles and reduce slides text to finalize slides content.
- Timeline and duration of webinar confirmed.

Meeting Date: 08/15/2024

OVERVIEW OF TOPICS

- **Topic 6:** Offsite Fabrication/Preassemble Components Webinar Development Subcommittee – Cody Bartley, Subcommittee Chair (Continued)
 - Overview and Approval of the June 11, 2024 draft meeting report/minutes.
Meeting highlights:
 - Dry run of the webinar.
 - Finalize speaking roles.
 - Webinar outcome:
 - Successful presentation of the webinar on June 25, 2024

Meeting Date: 08/15/2024

OVERVIEW OF TOPICS

- **Topic 7:** Codes and Processes Committee – Michael O’Connor, Committee Chair
 - Overview and Approval of the May 8, 2024, draft meeting report/minutes.

Highlights were:

- Triennial Code Cycles Updates:
 - Building Code Part 2 - Volume 1 Amendments
- Electronic Test, Inspection and Observation (eTIO) System Update.
- Standard Details Update

Meeting Date: 08/15/2024

OVERVIEW OF TOPICS

- **Topic 8:** Education and Outreach Committee – Scott Mackey, Committee Chair
 - Overview and Approval of May 22, 2024, draft meeting report/minutes.
 - Highlights were:
 - Update on the Guide for Working on OSHPD Projects – Tips from the Experts
 - Update on the Guide for Planning & Preparing for Disasters
 - Update on PIN 50 – Integrated Review Webinar
 - Update on Preapproved Fabricated Components and Systems Webinar
 - Creation of an “Island Hospital Concept” Facility Example
 - Report on the creation of the Construction Administration Proficiency Program update.
 - Discussion on approving American Institute of Architects continuing Education Units.
 - Discussion on new opportunities for educational content, events or program for 2024.

Meeting Date: 08/15/2024

OVERVIEW OF TOPICS

- **Topic 9:** Technology and Research Committee – Gary Dunger, Committee Chair
 - Overview and Approval of the June 20, 2024, draft meeting report/minutes.
 - Highlights were:
 - Cedars-Sinai Marina Del Ray Replacement Hospital Project Presentation
 - Discussion on Emerging Technologies:
 - Telemedicine and Robotics
 - - Healthcare Equity and Technology
 - All-Electric Hospital and Carbon Footprint
 - Artificial Intelligence
 - Cybersecurity and Medical Record
 - Healthcare Microgrid presentation postponed
 - Discussion of Committee goals and future direction.

Meeting Date: 08/15/2024

OVERVIEW OF TOPICS

- **Topic 10:** Office of Statewide Hospital Planning and Development Update - Chris Tokas, OSHPD Deputy Director
 - Update on OSHPD current workload and performance metrics.
 - Review of on-going seismic compliance efforts. 80% of building conforms to SPC requirements.
 - Highlight of upcoming CMS requirement for fully-sprinklered buildings by July 5th, 2028.
 - Discussion and Input on:
 - Sprinkler System Compliance
 - Emergency Preparedness
 - Healthcare Microgrids and Sustainability.

Meeting Date: 08/15/2024

OVERVIEW OF TOPICS

- **Topic 11:** Building Standards Unit Update – Mia Marvelli, Building Standards Unit Supervisor
 - Update on Building Standards Unit role.
 - Discussion and Input on:
 - Seismic Compliance and Non-Structural Components.
 - Pre-Approval Programs and Code Changes.
 - Seismic Instrumentation Program.
 - Small and Rural Hospital Seismic Relief.

Meeting Date: 08/15/2024

OVERVIEW OF TOPICS

- **Topic 12:** Inspection Service Unit - Joe LaBrie, Inspection Services Unit Supervisor, Monica Colosi, Compliance Officer, Darren graves, Compliance Officer, Chris Davis, District Structura Engineer.
 - Report on eTIO development activities.
 - Update on ISU certification and recertification exams.
 - Working on Compliance Officer Academy
 - ISU IOR Supplemental Monitoring
 - IOR Utilization Program

Meeting Date: 08/15/2024

OVERVIEW OF TOPICS

- **Topic 13:** Fire Prevention Unit Update – Nanci Timmins, Chief Fire Life Safety Officer
 - Report Fire Life Safety Training Program.
 - Staffing and Recruitment Challenges.
 - Building Standards and Code Updates.
 - Training for new Technologies.
 - Committee Involvement.

Meeting Date: 08/15/2024

OVERVIEW OF TOPICS

- **Topic 14:** Structural Services Section Update – Roy Lobo, Principal Structural Engineer
 - Seismic Compliance for SPC-1 and SPC-2 Buildings.
 - Non-Structural Performance Compliance.
 - Small and Rural Hospital Relief Program update.
 - Pre-Approval Program and Code Updates.
 - Emerging Issues and Future Work.

Meeting Date: 08/15/2024

OVERVIEW OF TOPICS

- **Topic 15:** HBSB Chair and Vice-Chair Election – Louise Belair, Board Chair
 - The board elected Jim Malley as Chair and Scott Mackey as Vice-Chair for the next term beginning January 2025.
- **Topic 16:** Comments from the public/board members not on this agenda – Louise Belair, Board Chair
 - None.
- **Topic 17:** Adjournment – Louise Belair, Board Chair
 - Meeting adjourned on August 15, 2024 at approximately 4 pm.

Meeting Date: 08/15/2024

OVERVIEW OF MOTIONS

- **Motion 1:** The board unanimously voted to approve the April 18, 2024 - Full Board meeting draft Report/Minutes as corrected.
- **Motion 2:** The board unanimously voted to approve the March 26, May 8 and June 11, 2024 – Offsite Fabrication/Preassembled Components Webinar Development Subcommittee draft Reports/Minutes as presented.
- **Motion 3:** The board unanimously voted to approve the May 8, 2024– Code and Processes Committee draft Meeting Reports/Minutes as presented.
- **Motion 4:** The board unanimously voted to approve the May 22, 2024 – Education an Outreach Committee draft Meeting Reports/Minutes as presented.
- **Motion 5:** The board unanimously voted to approve the June 20, 2024 – Technology and Research Committee draft Meeting Reports/Minutes as corrected.
- **Motion 6:** The board voted to approve Jim Malley as Chair and Scott Mackey as Vice-Chair of the board.

Meeting Date: 08/15/2024

ACTION ITEMS:

Offsite Fabrication/Preassembled Components Webinar Development Subcommittee:

- Host a second webinar focused on the inspection process for the offsite fabrication.

Code & Process Committee:

- Track progress of eTIO system and provide update in future meetings.
- First round of standard details for SNF will be submitted to HCAI for approval.

Technology & Research Committee:

- Develop a White Paper to consolidate discussions on telemedicine, healthcare equity, Artificial Intelligence and carbon footprint reduction.
- Reschedule Microgrid Presentation
- Explore AI and Robotics.
- Focus on Cybersecurity.

Meeting Date: 08/15/2024

CONCLUSION

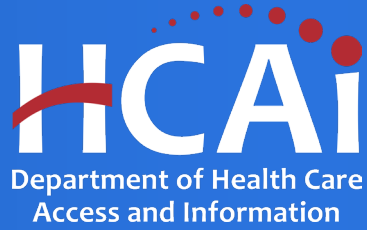
- Questions and Answers
- This report requires a MOTION by a Board Member and must be SECONDED by a Board Member for further ACTION.

Item #5

Education and Outreach Committee

- Overview and approval of the following draft Meeting Report/Minutes:
 - August 1, 2024
 - September 26, 2024
- Discussion and public input

Facilitator: Scott Mackey, AIA, NCARB, APEC, Design Manager, Hensel Phelps; Committee Chair (or designee)



Education and Outreach Committee

by
Scott Mackey, CHAIR
Cody Bartley, VICE CHAIR

COMMITTEE MEMBERS

Louise Belair
Janice Cheung
Michael Davis
Gary Dunger
Teresa Endres
Bert Hurlbut
Courtney Johnson
Jim Malley

CONSULTING MEMBERS

Kelly Martinez
Bruce Rainey
Belinda Young
Bill Zellmer

OSHPD STAFF

Hussain Bhatia
Monica Colosi
Darren Graves
Joe LaBrie
Mia Marvelli
Jamie Schnick
Nanci Timmins

MEETING REPORTS:

- **Overview of 2024 Committee Accomplishments**
- **Meeting Dates: August 1 & September 26, 2024**



2024 COMMITTEE SUPPORT OVERVIEW

Review of 2024 Committee Supported Accomplishments

- Published Design Guides
 - Projects Under OSHPD Jurisdiction – Tips from the Experts
 - Planning & Preparing for Disasters
- Webinars
 - Preapproved Fabricated Components & Systems
 - Policy Intent Notice (PIN) 50 – Integrated Review
- Certification Training
 - California Administrative Proficiency (CAP) Certification

2024 COMMITTEE SUPPORT OVERVIEW

COMPLETED - Design Guide for Working on OSHPD Projects – Tips from the Experts

- Mia Marvelli and Paul Coleman completed the final updates to the Guide and announced the Guide has been published along with an advertisement about its availability.

DESIGN GUIDE FOR WORKING ON PROJECTS UNDER OSHPD JURISDICTION



Tips from the Experts



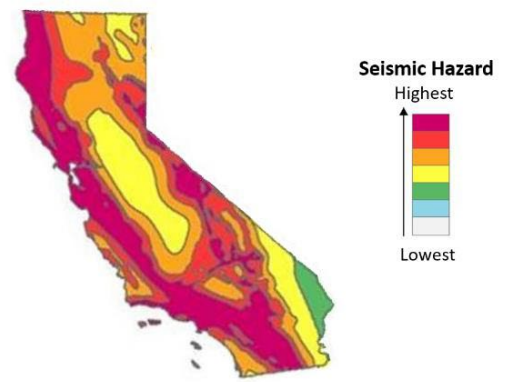
2024 COMMITTEE SUPPORT OVERVIEW

COMPLETED - Design Guide for Planning & Preparing for Disasters

- Mia Marvelli and Paul Coleman completed the final updates to the Guide and announced the Guide has been published along with an advertisement about its availability.



DESIGN GUIDE FOR PLANNING AND PREPARING FOR DISASTERS



Best Practices for Emergency Planning, Preparation, and Solutions

Office of Statewide Hospital Planning and Development

March 1, 2024



2024 COMMITTEE SUPPORT OVERVIEW

Creation and Completion of Webinars and Exams on the California Administrative Proficiency (CAP) Training Program

- Monica Colosi and Darren Graves created the CAP Certification program and have completed 4 separate webinars and proctored the first series of written exam workshops in LA and Sacramento. Second series of exam workshops are scheduled for January 2025.





Meeting Date: **August 1, 2024**

OVERVIEW OF TOPICS

Update on the Preapproved Fabricated Components and Systems Webinar

- Event was held on June 25, 2024. There were 632 registered attendees for the event, 393 participants.
- Webinar was very well received, it addressed attendees concerns, and answered many questions regarding this industry-driven process.
- Committee discussed the potential to schedule a follow up webinar to respond to several unanswered questions and provide a clearer understanding of the process. Determination for a second event will be explored in 2025.



Meeting Date: **August 1, 2024**

OVERVIEW OF TOPICS

Update on the Policy Intent Notice (PIN) 50 – Integrated Review Webinar

- Gary Dunger presented specifics regarding the webinar content: a 1-hour webinar focusing on the client's perspective of the integrated review process.
- Presenters for the webinar included himself, Diana Navarro and Monica Colosi.
- Event was eventually held on September 25, 2024.



Meeting Date: **August 1, 2024**

OVERVIEW OF TOPICS

Report on the California Administrative Proficiency (CAP) Training Program

- Monica Colosi and Darren Graves reported on the CAP training and certification program created to encourage greater understanding and use of the Administrative Code standards across the industry.
- The first round saw a 39% pass rate, which is considered a reflection of the current knowledge level in the field.
- Several thoughts were shared on how to improve the pass rate, but it was agreed that it is most important to maintain high standards for the certification requirements.



Meeting Date: **August 1, 2024**

OVERVIEW OF TOPICS

Creation of an “Inspect-to-Pass” Approach to Field Inspection Webinar

- Michael Davis, Joe LaBrie, Gary Dunger, Cody Bartley, myself and Burt Hurlbut volunteered to create a webinar focused around creating a helpful and cooperative culture of field inspections for the industry.
- Although primarily focused on the IOR group, it was noted that owners, design professionals and contractors are needed to support the program. A member of from the Committee will represent each responsibility.
- A Subcommittee was created to further develop this program and webinar. It will be reported on following this report.



Meeting Date: **August 1, 2024**

OVERVIEW OF TOPICS

Update on OSHPD 6 Chemical Dependency Recovery Hospitals CAN

- Mia Marvelli presented the draft Code Application Notice (CAN) for the OSHPD 6 Category, highlighting the integration of this facility type into the existing codes.
- The committee discussed the challenges of defining and regulating these facilities.
- It was suggested that a future Advisory Guide or webinar would be helpful to educate the public on this new CAN.
- It was also noted that since this is such a new category, that maybe this should wait until several of these facilities are built first. Then work out the best direction for a guide or webinar.





Meeting Date: **August 1, 2024**

OVERVIEW OF TOPICS

Update on other PINs, CANs, and Advisory Guides

- Mia Marvelli presented updates on several documents being reissued to clarify effective dates and to align with the July code supplement and enforcement timelines.
- CAN 1-0, CAN 2-108, CAN 3-517, changes to the Non-Material Alterations CAN, and PIN 74 were all highlighted in Ms. Marvelli's presentation.
- Several members of the Committee and staff discussed the importance and impact of these revisions and the value of getting these out to the community quickly. It was also noted that the Committee appreciates the thoroughness of staff's effort.



Meeting Date: **August 1, 2024**

OVERVIEW OF TOPICS

Prioritizing Development of Future Educational Programs

- Mia Marvelli facilitated a discussion on the prioritization and development of future educational and outreach programs. She outlined the necessity for strategic planning in the creation of the programs, the importance of aligning them with current needs, and addressing emerging trends in the industry.
- She highlighted the collaborative efforts in gathering input and feedback from various stakeholders; including committee members, healthcare professionals and public representatives. Feedback is crucial to identify key areas of focus.
- Emphasis on program flexibility to adapt and evolve as needs change in the field.



Meeting Date: **August 1, 2024**

OVERVIEW OF TOPICS

Prioritizing Development of Future Educational Programs - CONTINUED

- The presentation underscored the committee's commitment to enhancing knowledge dissemination and ensure all stakeholders are provided the best tools and information to maintain and improve hospital safety standards.
- The focus will be to ensure programs are relevant and effectively contribute to the broader goal of improving patient care and safety.
- Jim Malley acknowledged the importance of the programs and highlighted the necessity to maintain the program's flexibility and adaptability, so they remain effective and evolve as practices change.



Meeting Date: **August 1, 2024**

OVERVIEW OF TOPICS

Non-Agenda Topics

- Teresa Endres shared details of an OSHPD presentation to the AIA Central Valley Academy of Architecture for Health chapter aimed at clarifying the differences between HCAI and OSHPD. The presentation also highlighted the role of the Hospital Building Safety Board.
- The Committee supported the concept of continuing this presentation in other communities across the State. It supports any program reflecting a shared commitment to ensuring the public and industry professionals are well-informed. The discussion underscored our dedication through education and communication.

Meeting Date: **August 1, 2024**

OVERVIEW OF TOPICS

- **Future Education and Outreach Committee Meeting**
 - September 26, 2024
 - Additional meetings may be added as needed.

Meeting Date: **August 1, 2024**

OVERVIEW OF MOTIONS

A motion was presented to create a Subcommittee to develop the “Inspect-to-Pass” webinar content and support the event.

- The committee voted unanimously on the creation of the Subcommittee and its members.



HAPPY
Holidays



Meeting Date: **September 26, 2024**

OVERVIEW OF TOPICS

Report on the Policy Intent Notice (PIN) 50 – Integrated Review Webinar

- Diana Navarro presented an overview of the webinar event held on September 25, 2024, which had 530 registrants and 324 attendees.
- The session aimed to streamline the integrated review processes via the OSHPD E-Services Portal.
- Key feedback: Presentation was well received. Participants suggested extending the Q&A time to allow for more detailed responses to complex questions offered during the event.



Meeting Date: **September 26, 2024**

OVERVIEW OF TOPICS

Report on the Policy Intent Notice (PIN) 50 – Integrated Review Webinar – CONTINUED

- The webinar covered basic understanding of the E-Services Portal, but did not delve into the more advanced features of the website.
- Several Committee Members provided feedback and offered suggestions on following up on this event.
- The Committee agreed to support additional training events aimed at utilizing some of the more advanced functionalities of the portal, including the potential to incorporate a live demonstration of the use of the portal itself.



Meeting Date: **September 26, 2024**

OVERVIEW OF TOPICS

Report on the Preapproved Fabricated Components and Systems Webinar

- Scott Mackey reported on feedback from the webinar which had a strong attendance, but several technical questions were left unanswered due to time constraints.
- Key Feedback: Attendees sought clarification on compliance requirements, especially for seismic compliance when integrating preapproved components into hospital retrofitting projects.
- Michael Davis emphasized the need for more technical depth and detail in future sessions to address these unanswered complex questions.



Meeting Date: **September 26, 2024**

OVERVIEW OF TOPICS

Report on the Preapproved Fabricated Components and Systems Webinar - CONTINUED

- Scott Mackey suggested developing case studies to showcase successful integrations of prefabricated systems, especially in higher seismic zones.
- Gary Dunger raised concerns about how preapproved components comply with new code standards and recommended that future webinars provide detailed guidelines on what upgrades may be required to meet updated code standards.
- Cody Bartley proposed creating a formal FAQ document to address the most common questions raised and shared prior to any follow-up webinar event.



Meeting Date: **September 26, 2024**

OVERVIEW OF TOPICS

Report on the Preapproved Fabricated Components and Systems Webinar - CONTINUED

- **ACTION:** The Committee agreed to support a follow-up event to address unresolved technical questions, with a focus on seismic compliance, the impacts of currently adopted code changes, and sharing real-world case studies.
- It was agreed that a formal FAQ draft document be supported by the Committee for a follow-up webinar and be disseminated to participants in advance of any future event.





Meeting Date: **September 26, 2024**

OVERVIEW OF TOPICS

Update on “Inspect-to-Pass” Approach to Field Inspection Webinar Subcommittee

- Michael Davis reported on the program being developed for the webinar which focuses on promoting collaborative efforts between IORs and project teams.
- The Subcommittee discussed renaming the webinar to reflect the focus on teamwork and collaboration ensuring that the inspection process results in proactive compliance.
- It was suggested that “Inspect-for-Success” be considered as it focuses on the successful outcome of approvals as the goal for the process.



Meeting Date: **September 26, 2024**

OVERVIEW OF TOPICS

Update on “Inspect-to-Pass” Approach to Field Inspection Webinar Subcommittee - CONTINUED

- Gary Dunger suggested that the event include an open discussion period where inspectors have the opportunity to share their challenges and successes.
- Joe LaBrie added that buy-in from the entire project team is crucial. The audience should not be focused on or just include the IORs.
- **ACTION:** The Subcommittee will incorporate example case studies and interactive discussion periods into the webinar program. The Subcommittee was tasked with finalizing the event content and look to schedule event in early 2025.



Meeting Date: **September 26, 2024**

OVERVIEW OF TOPICS

Update on other PINs, CANs, and Advisory Guides

- Mia Marvelli presented updates on CAN 1-0 focused on clarifying effective dates for the California Administrative Code and CAN 2-108 which include guidelines for temporary structures used during emergencies.
- Ms. Marvelli confirmed staff is working on a webinar event to share and explain these documents, as well as others including updates on healthcare microgrids and non-material alterations (NMAs).
- Jamie Schnick addressed concerns regarding the practical implementation of microgrids in healthcare settings indicating that they meet Type 1 EES standards.



Meeting Date: **September 26, 2024**

OVERVIEW OF TOPICS

Exploring Program Flex Unit Collaboration with CDPH

- The Committee discussed the potential for collaborating with CDPH to develop a Program Flex Unit that would streamline the regulatory approval process.
- Kelly Martinez highlighted the need for clearer guidelines on Program Flex approvals, suggesting that HCAI and CDPH could work together to create a consistent approval process.
- Mia Marvelli indicated that an Advisory Guide is being developed to provide detailed instructions on Program Flex and Alternate Methods of Compliance.



Meeting Date: **September 26, 2024**

OVERVIEW OF TOPICS

Exploring the Development of a Small and Rural Hospital Relief Program webinar

- The Committee explored the idea of creating a Small and Rural Hospital Relief Program webinar to educate the public on how to navigate the State funded relief program focused on seismic retrofits and infrastructure improvements.
- Chris Tokas explained that a recent fund allocation creates an opportunity for better outreach and opportunities to benefit those small and rural facilities.
- Several members of the Committee offered to assist in the development of a webinar event focused on assisting those facilities in navigating this program.





Meeting Date: **September 26, 2024**

OVERVIEW OF TOPICS

Exploring the creation of A Guide for Dealing with Climate Change

- The Committee discussed the idea of creating a A Guide for Dealing with Climate Change to provide specific recommendations for reducing energy consumption, particularly in older hospital buildings.
- Gary Dunger noted increasing pressure on healthcare facilities to comply with new energy efficiency standards and the value such a guide would provide.
- Jim Malley emphasized the importance of addressing seismic resilience in conjunction with climate change. Adding that climate-related events are likely to increase in frequency.



Meeting Date: **September 26, 2024**

OVERVIEW OF TOPICS

Exploring the creation of A Guide for Dealing with Climate Change - CONTINUED

- Kelly Martinez noted that wildfire smoke and airborne pollutants are becoming major concerns for healthcare facilities. The Guide should offer practical solutions for improving indoor air quality and information on advanced filtration systems.
- Bill Zellmer added that the Guide should also focus on aligning with existing State regulations as defined by the California Energy Commission and California Air Resources Board (CARB).
- Cody Bartley suggested including case studies which demonstrate successful strategies used at other facilities.



Meeting Date: **September 26, 2024**

OVERVIEW OF TOPICS

Exploring the development of various educational programs aimed at addressing current and emerging challenges

- Meeting minutes should reflect a correction to #11: “Explore the development of various educational programs aimed at addressing current and emerging challenges.”
- The Committee discussed a recommendation for HCAI to prioritize the development of various educational programs aimed at addressing current and emerging challenges within the hospital and healthcare design and construction sectors.



Meeting Date: **September 26, 2024**

OVERVIEW OF TOPICS

Exploring the development of various educational programs aimed at addressing current and emerging challenges - CONTINUED

- It was noted that these programs serve to educate and inform healthcare professionals, design teams, and facility operators on critical topics such as regulatory compliance, best practices, and innovation in healthcare facility design, construction, and operation.
- The Committee is dedicated to supporting HCAI and OSHPD staff in the development, formation, and delivery of these programs as well as supporting the education and outreach to the healthcare industry in California.



Meeting Date: **September 26, 2024**

OVERVIEW OF TOPICS

Exploring the development of various educational programs aimed at addressing current and emerging challenges - CONTINUED

The following key areas were identified for program development:

- Classification of Imaging Procedures into Class 1, 2, & 3
- Tips on How to Work with OSHPD in the Field
- How to Write a Functional and Operational Program for CDPH Approval
- Develop a formal Design Professional Mentorship Program with HCAI
- Create a 2025 Educational Seminar: an in-person event covering multiple topics
 - Jim Malley and Scott Mackey were tasked with developing an initial outline for the seminar event.





Meeting Date: **September 26, 2024**

OVERVIEW OF TOPICS

Non-Agenda Topics

- Teresa Endres again shared details of an OSHPD presentation to the AIA Central Valley Academy of Architecture for Health chapter aimed at clarifying the differences between HCAI and OSHPD. The presentation also highlighted the role of the Hospital Building Safety Board.
- The Committee supported the concept of continuing this presentation in other communities across the State. It supports any program reflecting a shared commitment to ensuring the public and industry professionals are well-informed. The discussion underscored our dedication through education and communication.



Meeting Date: **September 26, 2024**

OVERVIEW OF TOPICS

Non-Agenda Topics

- ACTION:
- Educational Outreach Initiative:
 - The Committee agreed to develop a recurring outreach program based on the Central Valley example.
 - Teresa Endres and Richard Tannahill were tasked with creating a template to be used by other AIA chapters.
 - Target launch: 2025
- The Committee agreed to support other public-facing programs and events to ensure broader industry engagement and understanding of HCAI regulations..

Meeting Date: **September 26, 2024**

OVERVIEW OF MOTIONS

There were no motions made during this meeting.

CONCLUSION

- **Questions and Answers**
- **I move to accept this committee's report.**



*T*HERE IS NO TIME
MORE FITTING TO SAY

Thank You

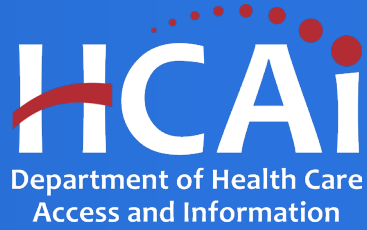
AND TO WISH YOU A

Happy Holiday Season

Item #6 “Inspect-to-Pass Approach to Field Inspections” Webinar Development Subcommittee of the Education and Outreach Committee

- Overview and approval of the October 24, draft Meeting Report/Minutes
- Discussion and public input

*Facilitator: Michael L. Davis, CHI, Senior Consultant, DavisHBC, Inc;
Subcommittee Chair (or designee)*



Inspect-to-Pass Webinar Development Subcommittee of the Education and Outreach Committee

by
Michael Davis, CHAIR
Cody Bartley, VICE CHAIR

COMMITTEE MEMBERS

Gary Dunger
Bert Hurlbut
Scott Mackey

HCAI STAFF
Monica Colosi
Joe LaBrie

MEETING REPORTS:

- Meeting Date: October 24, 2024



Meeting Date: **October 24, 2024**

OVERVIEW OF TOPICS

Review the Current Presentation Outline

- Discussion:
 - Concern expressed over the name “Inspect-to-Pass” as too focused on the IOR.
 - Concern expressed that “Inspect-to-Pass” implies leniency.
- Information and Action:
 - Add specific clarification of exactly what “Inspect-to-Pass” means.
 - Expand presentation to include Owners, Contractors, DPORs and Testing Agency.



Meeting Date: **October 24, 2024**

OVERVIEW OF TOPICS

Discuss Assignments for Developing Remaining Material

- Discussion:
 - Assignments:
 - IOR & Testing Agency – Michael Davis
 - Contractor & Subcontractors – Cody Barley
 - DPORs – Scott Mackey
 - Ownership – Gary Dunger
 - OSHPD & Field Staff – Joe LaBrie & Monica Colosi
 - Everyone agreed that a clear definition of what “Inspect-to-Pass” means, and examples of what it is and is not, is critical for inclusion in the Webinar.



Meeting Date: **October 24, 2024**

OVERVIEW OF TOPICS

Discuss Approach to Presentation Delivery and Speaking Assignments

- Discussion:
 - It was decided that Scott Mackey would serve as facilitator during the presentation.
- Action:
 - Presenters as follows:
 - IOR & Testing Agency – Michael Davis
 - Contractor & Subcontractors – Cody Barley
 - DPORs – Scott Mackey
 - Ownership – Gary Dunger
 - OSHPD & Field Staff – Monica Colosi



Meeting Date: **October 24, 2024**

OVERVIEW OF TOPICS

Explore Options For Renaming the Webinar

- Joe LaBrie suggested a title change would better communicate the intended philosophy of collaboration and high standards.
- Scott Mackey emphasized that the change should clarify the approach's proactive and collaborative nature.
- Input from the public supported renaming the presentation to something that better reflects a balanced, collaborative approach to inspections.



Meeting Date: **October 24, 2024**

OVERVIEW OF TOPICS

Determine Schedule and Plan for Future Meetings and Practice Sessions

- Discussion:
 - A structured schedule for preparation and practice needed.
 - Goal to fully develop material by end of first quarter of 2025.
 - Monica Colosi proposed working closely with HCAI's technical support team during the practice sessions to troubleshoot any potential issues.
- Action:
 - The committee agreed on a 2 month timeline for content development.
 - Additional preparation sessions to be established after the first of the year.
 - Multiple practice sessions to be established once the material is fully developed.



Meeting Date: **October 24, 2024**

OVERVIEW OF TOPICS

Comments From the Public/Committee Members On Issues Not On This Agenda

- Scott Mackey highlighted the broader potential impact of the “Inspect-to-Pass” framework, suggesting that the committee could consider developing additional training materials or workshops.
- He also indicated that the framework has the potential to set a new standard for inspection practices and foster consistent quality across the industry.
- Committee members and members of the public expressed appreciation for the collaborative work of the committee and its dedication to the success of this the “Inspect-to-Pass” Webinar.

Meeting Date: **October 24, 2024**

OVERVIEW OF MOTIONS

No Motions were presented.

Meeting Date: **October 24, 2024**

CONCLUSION

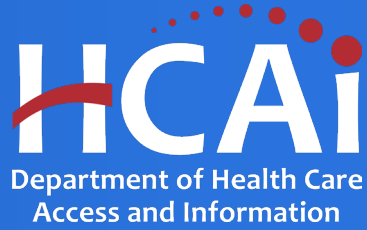
- **Questions and Answers**
- **I move to accept this committee's report.**

Item #7

Codes and Processes Committee

- Overview and approval of the September 11, 2024, draft Meeting Report/Minutes
- Discussion and public input

Facilitator: Michael O'Connor, Principal, Nichols, Melburg & Rossetto; Committee Chair (or designee)



Codes & Processes Committee

CODES AND PROCESSES COMMITTEE MEMBERS

MICHAEL O'CONNOR, CHAIR
TERESA ENDRES, VICE CHAIR
CODY BARTLEY
LOUISE BELAIR
JENNIFER COX
MICHAEL DAVIS
GARY DUNGER
JOHN GRIFFITHS
SCOTT MACKAY
JIM MALLEY
FARZAD NAEIM

CODES AND PROCESSES CONSULTING MEMBERS

MARK HERSHBERG
KELLY MARTINEZ
BELINDA YOUNG

CODES AND PROCESSES HCAI STAFF

CHRIS TOKAS
RICHARD TANNAHILL
ARASH ALTOONTASH
BRETT BEEKMAN
LARRY ENRIGHT
JOE LABRIE
ROY LOBO
BOB LYONS
MIA MARVELLI
DIANA NAVARRO
CARL SCHEUERMAN
JAMIE SCHNICK
NANCI TIMMINS
JOHN GRAY

CODES AND PROCESSES HBSB STAFF

VERONICA YUKE
MARCUS PALMER
EVETT TORRES

MEETING REPORTS:

- Meeting Date: 9/11/2024

Meeting Date: 9/11/2024

OVERVIEW OF TOPICS - TOPIC 1

Title 24

California Building

Standards Code

Update

Topic 1 – Triennial Code Cycle Update & Timeline

Presenter: Mia Marvelli, Architect, Supervisor, HCAI

HCAI has submitted code changes reviewed by this committee that are intended for inclusion in the 2025 California Building Standards Code, Title 24, scheduled for publication in July 2025 with an effective date of January 1, 2026.

- Mia Marvelli provided an update on the ongoing Triennial Code Cycle as of 9/11/2024.
 - 45-day public comment period for plumbing, electrical, and mechanical codes (September 6, 2024 – October 21, 2024).
 - 15-day review was conducted for the mechanical code, and the final documents were submitted to the California Building Standards Commission (CBSC) for review (November 6, 2024 through November 21, 2024).
- January 2025 will focus on changes to Parts 1 CAC, Part 2 CBC, and Part 10 Existing Building Code.

Meeting Date: 9/11/2024

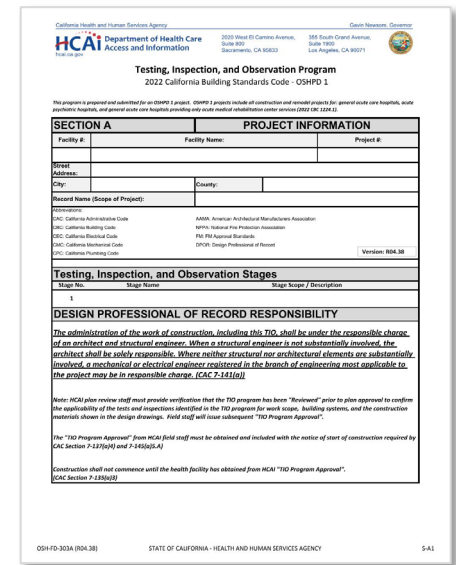
OVERVIEW OF TOPICS - TOPIC 2

Topic 2 – Update on Electronic Test, Inspection, and Observation (eTIO) Development

Presenter: Chris Davis, SE, District Structural Engineer, HCAI

Purpose: The eTIO interface is being designed to replace paper-based reporting, aiming to enhance real-time tracking of inspections.

- Mr. Davis reported that beta testing for the eTIO system was progressing as planned, with public testing expected by the end of the year. He highlighted the addition of a change log feature, which will help streamline communication between design professionals and inspectors.
- The committee will participate in the beta testing of the eTIO system and provide feedback. Training materials, including simulations, will be made available before the public rollout.



Meeting Date: 9/11/2024

OVERVIEW OF TOPICS - TOPIC 3

Topic 3 – Standard Details Update

Presenter: Gary Dunger, Executive Director, Design and Construction, Cedars-Sinai Health System; Committee Member

- Mr. Dunger presented an update on the Standard Details Project, outlining progress made on intersecting wall assemblies, one-hour ceiling roof assemblies, and the use of fire barriers in wood-frame construction.
- The Standard Details Project will continue to be refined, with further studies on seismic compliance. Additional input from committee members will be considered before finalizing details.

Meeting Date: 9/11/2024

OVERVIEW OF TOPICS - TOPIC 4

Topic 4 – Explore opportunity to create a Subcommittee to develop an advisory on “How to Write a Functional and Operational Program”

Presenter: Teresa Endres, AIA, ACHA, EDAC, AAH, Senior Associate, Medical Planning Director, Taylor Design; Committee Vice-Chair

- Teresa Endres led a discussion on developing an advisory guide to help professionals draft functional and operational programs for healthcare facilities for CDPH.
- A subcommittee will be formed to draft the “Functional and Operational Program Guide”, gathering input from both HCAI staff and industry stakeholders. The guide that will clarify agency expectations will be reviewed by the committee before final publication

Meeting Date: 9/11/2024

OVERVIEW OF MOTIONS

- **No motions were made at this meeting.**

Meeting Dates: 09/11/2024

CONCLUSION

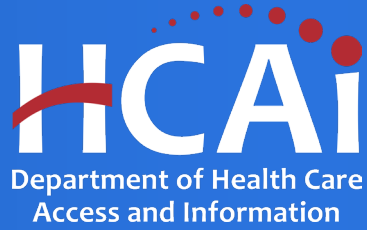
- Questions and Answers
- I move to accept the September 11, 2024, meeting report

Item #8

Structural and Nonstructural Regulations Committee

- Overview and approval of the October 23, 2024, draft Meeting Report/Minutes
- Discussion and public input

*Facilitator: Jim Malley, SE, Senior Principal, Degenkolb Engineers;
Committee Chair (or designee)*



Structural and Nonstructural Regulations Committee

by
James O. Malley, Chair

COMMITTEE MEMBERS:

Farzad Naeim, Vice Chair

Cody Bartley

Louise Belair

Bruce Clark

Michael Davis

Sharon Goel

Marshall Lew

Farzad Naeim

Jennifer Thornburg

CONSULTING MEMBER : Mark Hershberg

HCAi STAFF:

Chris Tokas, Richard Tananahill, Arash Altoontash, Roy Lobo,
David Neou, Carl Scheuerman, Mike Hooper, Joe LaBrie, Mia Marvelli,
Jamie Schnick, Ali Sumer, Veronica Yuke, John Gray

MEETING REPORTS:

Meeting Date: October 23, 2024

Meeting Date: March 6, 2024

OVERVIEW OF TOPICS

- Topic 1 –Triennial Code Cycle Update and Timelines (Mia Marvelli, HCAI)
- Topic 2 – Streamlining the Continued use of Existing OSHPD Preapproval Programs with New ASCE 7-22 Force Equation for Supports/Attachments and Special Seismic Certification of Nonstructural Components, (Tim Piland; HCAI)
- Topic 3 –Proposed Policy Intent Notice (PIN) for Steel Quality Assurance and Quality Control (Mohammad Karim and Bob Lyons; HCAI)
- Topic 4 – New Automated Seismic Compliance Project Portal to Facilitate Submittals of Updated Compliance Plans (Ali Sumer; HCAI)
- Topic 5 – AB 1882 (Chapter 584) Requirements for Facility Specific Services Reporting and 2024 Reporting Portal Opening (Ali Sumer; HCAI)

Meeting Date: March 6, 2024

OVERVIEW OF TOPICS

- Topic 6 – Proposed PIN for Design and Implementation of Anchorage and Bracing of NPC Items Required to Meet NPC Compliance Guidelines (Ali Sumer; HCAI)
- Topic 7 –Seismic Compliance Update on Recently Signed Legislation AB 869 (Chapter 801) and SB 1447 (Chapter 896) (Ali Sumer and Chris Tokas; HCAI)
- Topic 8 – Comments from the Public/Committee Members on Issues Not on this Agenda (Jim Malley; HBSB Member)

Meeting Date: October 23, 2024

Topic 1 –Triennial Code Cycle Update and Timelines

Mia Marvelli provided an update on the 2025 Title 24 code packages submission process for the triennial code cycle, highlighting key deadlines, including the final submission to the Building Standards Commission (CBSC) and their review process to date. Public Hearings will be held in December 2024 with the adoption of approved amendments anticipated in early 2025 with an effective implementation date of January 2026. Ms. Marvelli also highlighted amendments to the administrative code, including AB 869 which addresses extensions to small and rural hospitals for the 2030 seismic compliance deadline. A public comment package was expected for November 2024. Final approval by the CBSC is anticipated for January 2025, which take effect 30 days after filing with the Secretary of State.

Meeting Date: October 23, 2024

Topic 2: Streamlining the Continued use of (E) OSHPD Preapproval Programs with (N) ASCE 7-22 Force Equation for Supports/Attachments and Special Seismic Certification of Nonstructural Components, (Tim Piland, HCAI)

- Tim Piland summarized the updating process planned for the OSHPD Preapproval programs to align with the new ASCE 7-22 force equations being incorporated into the 2025 CBSC. He summarized the approach for both supports/attachments and the special seismic certification program. The modifications will not invalidate current pre-approvals but rather provide supplementary guidance as to how to apply the new equations.
- In addition to the modifications, a series of webinars and other educational resources are planned to facilitate proper implementation.
- During the discussion period, Mr. Piland confirmed that the planned documents would be published concurrently with the 2024 CBSC.

Meeting Date: October 23, 2024

**Topic 3 –Proposed PIN for Steel Quality Assurance and Quality Control
(Mohammad Karim and Bob Lyons; HCAI)**

- Mohammad Karim introduced the proposed PIN for Steel QA and QC. This PIN aims to align the OSHPD QA/QC requirements with the latest standards of the IBC and AISC. The intent is to enhance compliance, streamline inspections and reduce overall costs for California healthcare facilities while maintaining the state’s stringent standards. The PIN address both QA, covering external inspection protocols by approved agencies to verify compliance with approved construction documents and project specifications, and QC, covering fabricator-led inspections to ensure compliance that fabrication and installation processes meet industry standards.
- Bob Lyons noted that the update was performed with input from key industry stakeholders (engineers, fabricators and erectors) partially to close gaps in accountability in the QA/QC process.
- An incremental rollout of the PIN is planned for 2025 that includes training programs.

Meeting Date: October 23, 2024

**Topic 3 –Proposed PIN for Steel Quality Assurance and Quality Control
(Mohammad Karin and Bob Lyons; HCAI) - Continued**

- Key Provisions of the PIN Include:
 - Updating requirements of for material testing, weld inspections and bolting procedures based on the latest AISC and AWS standards.
 - Defining roles and responsibilities for fabricators, inspectors and contractors to minimize overlaps and ensure clear accountability.
 - Establishing minimum documentation standards for QA/QC processes (reports, certifications, and records of non-compliance resolutions).
 - Introducing standardized inspection protocols to streamline approval processes.

MOTION: [Davis/Bartley]:

The committee unanimously approved a motion to recommend the PIN for approval at the December 2024 Full Board meeting.

Meeting Date: October 23, 2024

Topic 4 – New Automated Seismic Compliance Project Portal to Facilitate Submittals of Updated Compliance Plans (Ali Sumer; HCAI)

Ali Sumer introduced the automated Seismic Compliance Project Portal to help streamline submissions of compliance plans for healthcare facilities and assist facilities in meeting the 2030 mandated seismic safety requirements. The compliance plans are a roadmap to achieving seismic compliance, detailing strategies for facilities with varying levels of Structural Performance Category (SPC) and Nonstructural Performance Category (NPC) ratings. Dr. Sumer confirmed that the portal is currently under development. HCAI plans to finalize development of the portal by December 2024 and roll out the first phase of the portal by March 2025, focusing initially on acute care hospitals. Training sessions and resources for facility staff will begin in January 2025 to help ensure smooth adoption.

Meeting Date: October 23, 2024

Topic 4 – New Automated Seismic Compliance Project Portal to Facilitate Submittals of Updated Compliance Plans (Ali Sumer; HCAI) – Cont.

Key features include:

- Pre-populated Data: Facilities will benefit from preloaded historical compliance information to streamline data entry.
- Validation Tools: Automated checks will identify incomplete or non-compliant submissions prior to finalization.
- Dashboard Access: Facilities can track compliance statuses, upcoming deadlines, and review cycles in real time.
- Public Transparency: A public-facing component will display compliance statuses without disclosing sensitive details.
- Amendment Management: Facilities will have the ability to revise and submit 1 changes to compliance plans through a user-friendly interface.

The SNSR committee expressed their support for the new portal in the discussion period.

Meeting Date: October 23, 2024

Topic 5 – AB 1882 (Chapter 584) Requirements for Facility Specific Services Reporting and 2024 Reporting Portal Opening (Ali Sumer; HCAI)

Ali Sumer explained that AB 1882 (Chapter 584) mandates general acute care hospitals to report specific healthcare services provided in each of their buildings. He highlighted that this process ensures transparency and accountability for how hospitals deliver services across various facilities. Dr. Sumer clarified that the reports help the state monitor healthcare service availability and identify gaps in service delivery.

Dr. Sumer announced that the portal for the 2024 reporting period would open on November 1, 2024. He described the portal as an intuitive system designed to streamline the submission process. Facilities will have access to preloaded historical data in the portal, enabling them to review and update existing information rather than start from scratch. Facilities must complete their submissions by the specified deadline to avoid penalties. Training sessions and online resources will be provided to facilitate the submission process.

The SNSR committee expressed their support for the portal and the implementation strategy.

Meeting Date: October 23, 2024

Topic 6 – Proposed PIN for Design and Implementation of Anchorage and Bracing of NPC Items Required to Meet NPC Compliance Guidelines (Ali Sumer; HCAI)

Ali Sumer introduced the proposed **PIN** focused on the design and implementation of anchorage and bracing for Nonstructural Performance Category NPC items. He emphasized that the PIN aims to ensure that healthcare facilities meet the NPC compliance deadlines. This PIN specifically addresses the anchorage and bracing of critical nonstructural components, such as mechanical equipment, piping systems, electrical conduits, and ceiling assemblies, which are essential for maintaining operations during and after seismic events.

The proposed PIN provides detailed design criteria, construction requirements, and inspection protocols for anchoring and bracing nonstructural elements. These elements are necessary to achieve compliance with the state mandated NPC-3, NPC-4, and NPC-5 levels. Dr. Sumer highlighted that facilities must comply with the anchorage and bracing requirements before the final 2030 compliance deadline for NPC-5.

Meeting Date: October 23, 2024

Topic 6 – Proposed PIN for Design and Implementation of Anchorage and Bracing of NPC Items Required to Meet NPC Compliance Guidelines (Ali Sumer; HCAI) – Cont.

Dr. Sumer stated that HCAI plans to finalize and release the PIN by March 2025, giving facilities sufficient time to align their projects with the updated standards. Workshops and technical resources will assist stakeholders in understanding the PIN's requirements.

Key Components of the Proposed PIN Include:

- **Design Specifications:** Provides precise design requirements for securing nonstructural components to withstand seismic forces, incorporating updated ASCE 7-22 force calculations.
- **Implementation Guidelines:** Outlines steps for contractors and engineers to implement anchorage and bracing systems, including pre-construction approvals, installation checks, and final inspections.
- **Compliance Pathways:** Describes pathways for facilities to meet compliance deadlines through phased implementation, prioritizing critical NPC-3 and NPC-4 items. It also includes provisions for facilities requesting extensions under AB 869.
- **Inspection and Documentation:** Facilities must submit detailed documentation of anchorage and bracing systems, including engineering calculations, testing results, and as-built drawings. Standardized reporting templates are provided to ensure consistency across submissions.

Meeting Date: October 23, 2024

Topic 6 – Proposed PIN for Design and Implementation of Anchorage and Bracing of NPC Items Required to Meet NPC Compliance Guidelines (Ali Sumer; HCAI) – Cont.

Ali Sumer and Chris Tokas presented details on AB 869, which was signed into law on September 28, 2024. This legislation addresses seismic compliance for specific categories of hospitals and offers provisions to delay the January 1, 2030, compliance deadline by up to five years for certain facilities. AB 869 primarily benefits small, rural, distressed, and health care district hospitals. The key components include:

- Eligibility for Deadline Extensions: Hospitals meeting specific criteria—including critical access hospitals, rural hospitals, and facilities with 50 beds or fewer—may request an extension for seismic retrofitting or other compliance measures until no later than January 1, 2035.
- Submission Requirements: Facilities seeking extensions must submit a seismic compliance plan and, where applicable, a Nonstructural Performance Category (NPC)-5 evaluation report.
- Incremental Compliance Milestones: Facilities granted extensions must outline specific milestones demonstrating adequate progress toward achieving compliance, subject to HCAI approval
- Penalties for Noncompliance: Facilities failing to meet approved milestones may face penalties, including restrictions on future building permits and daily fines.

Meeting Date: October 23, 2024

Topic 7 – Seismic Compliance Update on Recently Signed Legislation AB 869 (Chapter 801) and SB 1447 (Chapter 896) (Ali Sumer and Chris Tokas; HCAI) – Cont.

Chris Tokas emphasized that AB 869 aims to balance the state’s seismic safety mandates with the practical realities faced by under-resourced hospitals. He confirmed that HCAI will develop new administrative regulations to support the implementation of AB 869 and will release guidelines for facilities in early 2025. Training workshops, webinars and other resources will be developed to assist the facilities.

Ali Sumer outlined SB 1447 (Chapter 896), which specifically authorizes Children’s 23 Hospital Los Angeles to seek an extension of up to three years for seismic compliance deadlines. SB 1447 requires the hospital to submit a comprehensive seismic compliance plan and an NPC-5 evaluation report by **January 1, 2025**. The hospital must demonstrate substantial progress through major milestones approved by HCAI.

The committee expressed support for the seismic compliance updates presented for both bills. Members recognized the significance of these legislative measures in addressing the unique challenges faced by small, rural, and specialized hospitals and made suggestions to help facilitation. Dr. Sumer and Mr. Tokas committed to ensuring a smooth implementation process with robust support for eligible facilities.

Meeting Date: October 23, 2024

Topic 8 – Comments from the Public/Committee Members on Issues not on this Agenda (Jim Malley; HBSB)

The following comments were made by members of the SNSR Committee:

- Courtney Johnson mentioned the need for greater clarity in the timelines for future regulatory updates to ensure all stakeholders can meet expectations effectively.
- Michael Davis suggested that the committee explore improvements in communication with rural facilities, as these facilities often face unique challenges in accessing resources and information related to seismic compliance.
- Jennifer Thornburg recommended including additional guidance in future PINs to address specific geological constraints faced by facilities located in high-seismic regions.

Jim Malley noted that issues raised during this session would be reviewed for potential inclusion in the agenda of the next committee meeting and thanked the committee members and the public for their active participation in the meeting.

Meeting Date: October 23, 2024

CONCLUSION

- Questions and Answers
- I move to accept the March 6, 2024, meeting report.

Meeting Date: December 11, 2024

Motion

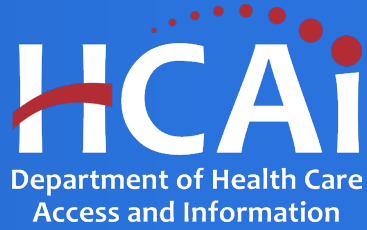
- I move that the proposed PIN for Quality Assurance and Quality Control of Steel Structures be approved.

Item #9

Instrumentation Committee

- Overview and approval of the October 29, 2024, draft Meeting Report/Minutes
- Discussion and public input

*Facilitator: Jim Malley, SE, Senior Principal, Degenkolb Engineers;
Committee Vice-Chair (or designee)*



Instrumentation Committee

by

FARZAD NAEIM, COMMITTEE CHAIR
JIM MALLEY, COMMITTEE VICE CHAIR

COMMITTEE MEMBERS:

MARTIN HUDSON
COURTNEY JOHNSON
JENNIFER THORNBURG

CONSULTING MEMBERS:

HAMID HADDADI
MOH HUANG
TONY SHAKAL

HCAI STAFF:

HUSSAIN BHATIA, EROL KALKAN, ROY LOBO, ALI SUMER

MEETING REPORT:

- Meeting Date: October 29, 2024

Meeting Date: 10/29/2024

OVERVIEW OF TOPICS

- **Discussion on issues related to enhancing instrumentation to health monitoring, and status of publication and distribution of the Seismic Instrumentation of Healthcare Facilities White Paper**
Facilitator: Farzad Naeim, Committee Chair
- **Review of the Fiscal Year 2023-24 HCAI/CSMIP Hospital Instrumentation Annual Report by the California Strong Motion Instrumentation Program (CSMIP)**
Facilitator: Hamid Haddadi, CSMIP
- **Annual HCAi Update to the Committee on CSMIP**
Facilitator: Erol Kalkan, HCAi

Meeting Date: 10/29/2024

OVERVIEW OF TOPICS (continued)

- **Status of Committee activities, and planning tasks and objectives for 2025 and beyond**

Facilitator: Farzad Naeim, Committee Chair

Topic 1: Discussion on issues related to enhancing instrumentation to health monitoring, and status of publication and distribution of the Seismic Instrumentation of Healthcare Facilities White Paper

1. Committee had a concern over the limited promotion and distribution of the recently approved white paper on seismic instrumentations
2. Discussions ensued resulting in the recommendation to host webinars to educate the stake holders regarding the importance and benefits of instrumentation and structural health monitoring.

❖ Informational and Action items

1. The committee reached an informal consensus to establish a subcommittee comprised of members from both the Instrumentation Committee and the Education and Outreach Committees that would take responsibility for organizing and promoting webinar(s) focused on the white paper.

Topic 1: Discussion on issues related to enhancing instrumentation to health monitoring, and status of publication and distribution of the Seismic Instrumentation of Healthcare Facilities White Paper (continued)

❖ Informational and Action items

2. Jim Malley committed to presenting the subcommittee proposal at the December HBSB Full Board meeting for formal approval. Once approved, the subcommittee will work on finalizing the webinar details, including selecting presenters and scheduling dates.

Topic 2: Review of the Fiscal Year 2023-24 HCAI/CSMIP Hospital Instrumentation Annual Report by the California Strong Motion Instrumentation Program (CSMIP)

1. Hamid Haddadi provided a detailed presentation of the Annual Report, covering the progress and status of three types of hospital instrumentation projects under the CSMIP agreement with HCAi
 - Type 1: HCAI-Funded Regular Instrumentation
 - Type 2: Owner-Funded New Hospital Instrumentation
 - Type 3: Owner-Funded Retrofitted Instrumentation
2. **Discussions:**
 - a) Hudson raised the value of a recent case study of two hospitals in Ventura County, each of which recorded different ground accelerations during an earthquake due to differing foundations and ground conditions.

Topic 2: Review of the Fiscal Year 2023-24 HCAI/CSMIP Hospital Instrumentation Annual Report by CSMIP (Continued)

1. Discussions (continued):

- b) Kalkan discussed the different data acquisition methods CSMIP uses, specifically comparing centralized data processing (where data is streamed to a central data center) versus on-site processing. He highlighted the potential risks of relying solely on centralized data.
- c) Kalkan also inquired about the feasibility of using satellite technology, like Starlink, to secure data transfer during emergencies.
- d) Haddadi explained CSMIP's use of Antelope software, which allows CSMIP to initiate real-time data streaming and acquisition as needed.
- e) Haddadi expressed openness to exploring options like Starlink if budget and technical constraints allowed.

Topic 2: Review of the Fiscal Year 2023-24 HCAI/CSMIP Hospital Instrumentation Annual Report by CSMIP (Continued)

❖ Informational and Action items

1. The committee informally recognized the potential of using the Ventura County hospital data for a case study or white paper, as suggested by Hudson.
2. The committee informally agreed to exploring satellite technology for data streaming as a future enhancement to existing infrastructure.

Topic 3: Annual HCAi Update to the Committee on CSMIP

1. Kalkan provided an update reiterating the critical role of the program in supporting the Instrumentation Committee's goals. He discussed the progress toward enhancing data collection and noted that CSMIP is expanding its ground station network across California.
2. Kalkan also informed the committee about future objectives to improve real-time earthquake response, including plans for automated data streaming to HCAI from hospitals.

➤ **Discussion**

- Committee members commended HCAi and CSMIP for their progress.

❖ **Informational and Action item:**

- None

Topic 4: Status of Committee activities, and planning tasks and objectives for 2025 and beyond

- Naeim led a discussion on strategic planning for 2025 and future objectives for the committee. Members discussed building upon the current year's advancements in seismic monitoring and continuing to develop outreach efforts.

❖ Informational and Action item:

- The committee members reached an informal consensus on the importance of increasing outreach and public engagement in 2025.
- They agreed to prioritize efforts to promote structural health monitoring and seismic instrumentation awareness through various means.
- While no formal action was taken, the idea of publishing white papers or case studies was widely supported by the committee members.

Meeting Date: 10/29/2024

CONCLUSION

- Questions and Answers
- I move to accept the October 29, 2024, Instrumentation Committee meeting report

Thank you!

Item #10

Ad hoc Board Procedures Committee

- Overview of the December 11, 2024, meeting
- Review and approve changes to the Board Policies and Procedures
- Discussion and public input

Facilitator: Michael Foulkes, Director, State and Local Government Affairs, Apple Inc.; Committee Chair (or designee)

VII. Meetings

In accordance with Government Code, Sections 11120 through et seq., all meetings are open to the public as required by the Bagley-Keene Open Meeting Act.

A. The types of Board meetings that can be held are:

1) Regular Board Meetings

The Board convenes on the call of the Chair. The Board will meet *up to* three times a year ~~usually in April, August, and December~~. It is the intent that the meetings are held in various areas throughout the state.

V. Board Members - Membership and Responsibilities

- A. The Director of HCAI appoints members of the Board. When requested by the Director, prospective nominees will be interviewed by the Chair of the Board or Vice-Chair of the Board and the Executive Director. The Board consists of appointed members and six statutory ex-officio members.
- 1) The statutory ex-officio members include the Director of HCAI, the State Fire Marshal, the State Geologist, the Executive Director of the California Building Standards Commission, the Director of the Department of Public Health, and the Deputy Director of the ~~Facilities Development Division~~ **Office of Statewide Hospital Planning and Development** of HCAI, or their officially designated representatives.

Item #11

Review and approve 2025 Committee Assignments, Goals, and Meeting Calendar

- Discussion and public input

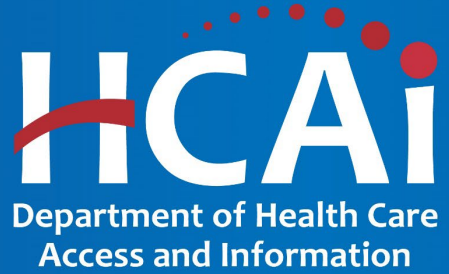
Facilitator: Jim Malley, Board Chair-Elect (or designee)

Item #12

Office of Statewide Hospital Planning and Development (OSHDP)
Update

- Workload and performance
- Personnel changes
- Discussion and public input

*Facilitator: Chris Tokas, SE, F.SEAOC, CBO, Deputy Director, HCAI
(or designee)*



Office of Hospital Planning & Development California's Building Department for Hospitals



Update for the Hospital Building Safety Board December 12, 2024



Year in Review

2023



2024

2025

OSHPD Strategy Map

Serving Together, Building Together, Providing Together,
Smarter Together

HCAI Vision

A healthier California where all receive equitable, affordable, and quality health care.

OSHPD Purpose

Advancing collaboration with healthcare design professionals and providers, to build safe, sustainable, and resilient, facilities that remain Functional through disasters for all Californians.

Deliver
Valuable
Public
Service

Integrate &
Promote
Equity
Throughout
HCAI

Promote an
Inclusive HCAI
Community of
Professional
Learning &
Growth

Maximize
Operational
Efficiency &
Effectiveness
Through
Innovation

Optimize
Fiscal
Stewardship
&
Transparency

Our Products & Services

- Plan Review
- Construction Observation
- Seismic Compliance Program
- Development of Building Standards
- Emergency Response
- Research
- Hospital Building Safety Board

Our Values and Guiding Principles

Professionalism-Innovation-Equity-Service

Communication-Teamwork-Accountability-Integrity-Respect-Customer centric and Data Driven



How do
we add
value in
our
services?



Driving higher organizational health and performance means focusing on new practices, using technology to create value, and updating leadership styles.

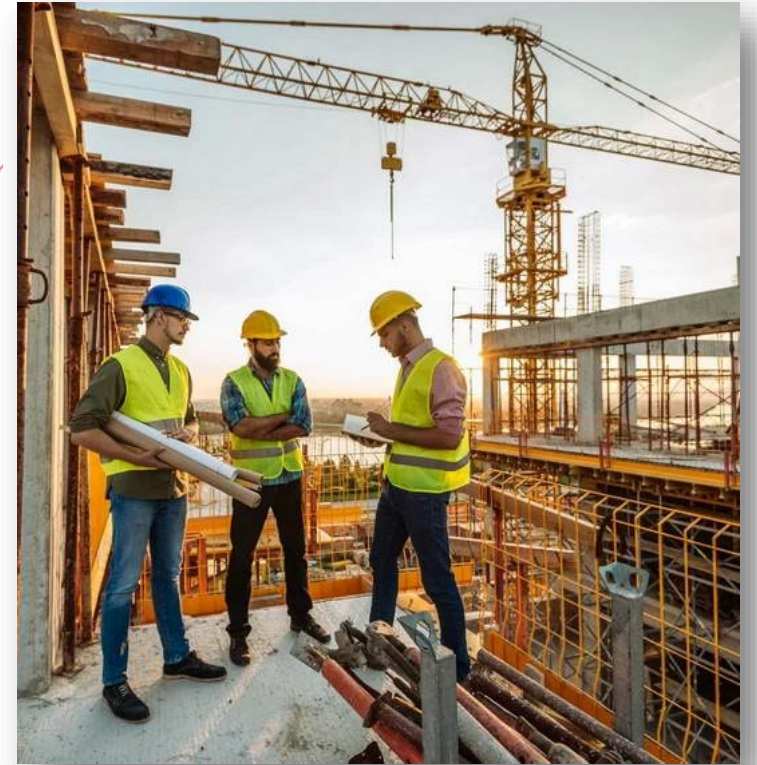
2024 Accomplishments



OSHPD's Top 3 Objectives for 2024

1. Improve consistency in the field Operations

- OSHPD Field staff performance
- DPOR performance
- IOR observation
- IOR performance



OSHPD's Top 3 Objectives for 2024

2. Training Programs fully functional by year end

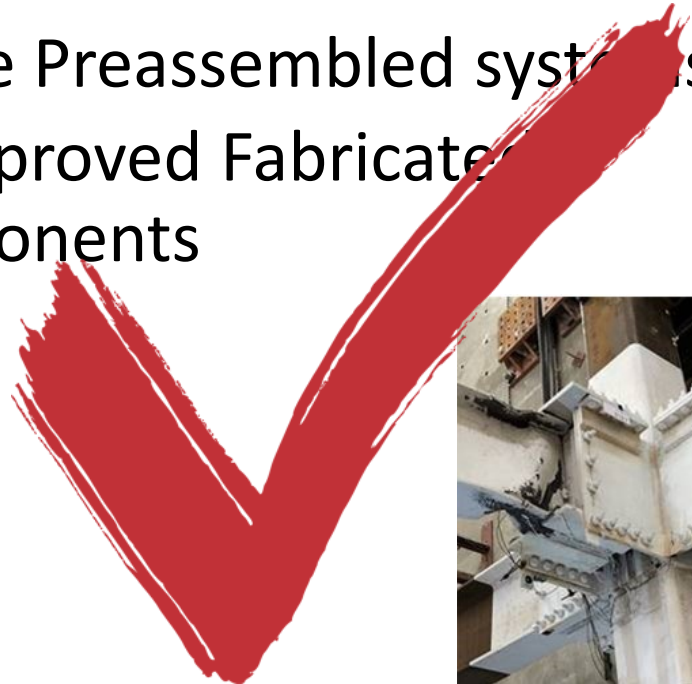
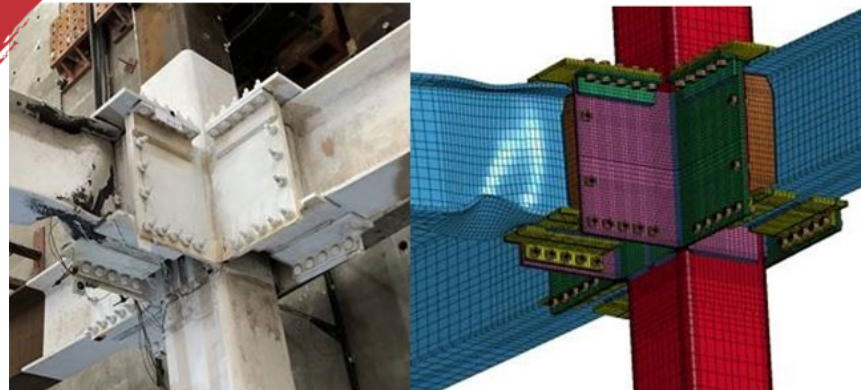
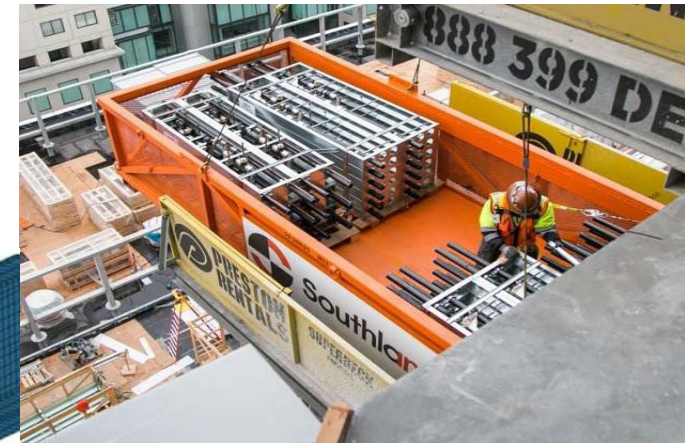
- Fire life Safety
- Field Compliance
- Field Structural Engineer



OSHPD's Top 3 Objectives for 2024

3. Prefabricated Components & Systems

- Offsite Prefabrication
- Offsite Preassembled systems
- Preapproved Fabricated Components



OSHPD's Achievements in 2024

1. Completed successfully the adoption of proposed cost-effective building codes & standards submitted to the Building Standards Commission for adoption in the intervening cycle for the 2025 California Building Standards Code to better align with national standards
2. Advanced the capabilities of the EOC GIS Mapping system: New layers added, increased collaboration with CDPH and CalOES. EOC contact software Blackberry Athoc tested and available for active use allowing the Incident Commander to activate EOC from any location/computer.
3. Achieved significant progress in the Hospital Seismic Compliance Program
4. Numerous Technical staff training/stakeholder meetings (in person & remotely)
5. Developed OSHPD Specialty Software for Analyzing Strong Motion Records
6. Published New and Updated numerous CANs
7. Published New and Updated numerous PINs
8. Published New and Updated Advisory Guides

OSHPD's Achievements in 2024

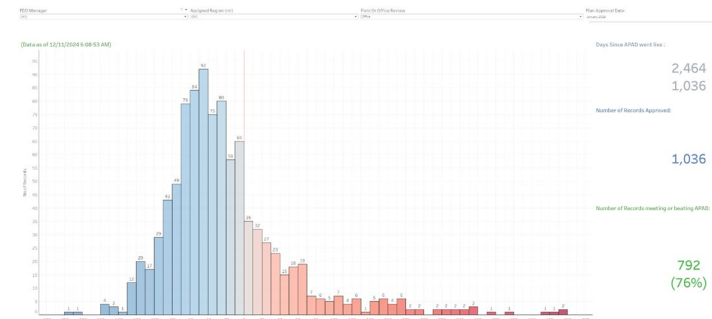
- 9. Completed instrumentation of plan for instrumenting HCAi funded hospital buildings
- 10. Added to the Expedited Building Permits XBP
- 11. Developed additional tools and processes to improve staff plan review efficiencies
 - Many modifications to workload dashboards for assignments and triage (updated hourly).
 - New indicators to identify last reviewer on a project to encourage timely completion of reviews.

I180008-19-00-DSI0056	New Building	12744 Cedars-Sinai Marina Del Rey H..	Fire Alarm	Enrique Pena	North LA	0	Fire and Life Safety Review	In Review	1.5	4.5	3.0	0.5	1	4.5 Last Reviewer
-----------------------	--------------	---	------------	-----------------	----------	---	--------------------------------	-----------	-----	-----	-----	-----	---	----------------------

- 12. AB 2190, Successfully assisted hospitals to meet their (SPC-2) deadline due to OSHPD & CHA efforts - monthly meetings for each region to complete projects related to AB2190.
- 13. SRHP Escalated outreach efforts and streamed lined their seismic compliance work
- 14. Various improvements to the Facility Detail portion of HCAI/OSHPD website (<https://hcai.ca.gov/construction-finance/facility-detail/>):
 - Addition of the Building Services tab to show which services are in which building per AB1882.
 - Addition of Operation Plans tab which links operation plans submitted for NPC-4D buildings.
 - Addition of columns to indicate compliance with AB1882 signage for each building.

OSHDPD's Achievements in 2024

15. Successfully completed Electronic Plan Review Integrations: Taking eSP (Accela) to the next level
 - Accela/ePC upgrades/patches
 - ESP Advisory Committee actively review and improve the process
16. Software and Hardware upgrades to facilitate and support Electronic Plan Review
17. Continue to further augment connection with industry using TIPS OF THE DAY and FIELD BRIEF ADVISE as a direct line of communication
18. Strengthened IOR training, education and preparation.
19. Continue to create coalitions/partnerships with other State Agencies responsible for the licensure of healthcare related services to establish a coordinated path for projects to be completed successfully and become operational expeditiously
20. Maintained plan review goals above 70% (76% of 1036 projects in 2024) all projects meeting their anticipated project approval dates (APAD)
21. Double the number of Geotechnical reviews from last year, and reviews resulted in less than a month on averageField Operation Manual: Updated, completed and published quarterly.
22. Tips from the Experts Manual: Updated, completed and published
23. Field Staff Safety Training: CO Academy, Monthly All Field Staff “Consistency of Service (CONSERV) Meetings”, Monthly CO Training Meetings
24. HCAI “Construction Administration Proficiency (CAP)” Certification Program



Meetings w/ Industry in 2024

- CHA Monthly/Semiannually update meetings
- CDPH L&C Quarterly
- Kaiser Quarterly
- Cedars Sinai Quarterly
- LLUMC Semiannually
- HCA
- Rady Children's
- LA County Public Works
- Seton
- McCarthy Construction
- Prime Healthcare
- Providence Health
- UC Health Systems
- Universal Health Services Quarterly
- Clinic Advisory Committee Quarterly Meeting
- Scripps
- City of Hope
- CAFAA
- SFM

Industry Invited Seminars in 2024

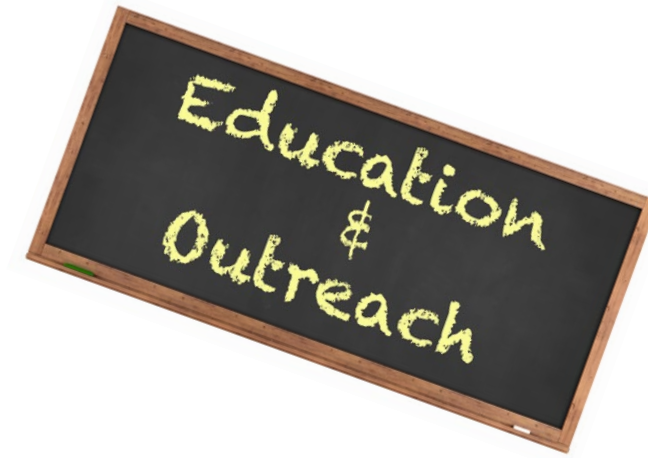
- CSHE Annual Meeting
- CSHE – Regional Association Meetings
- IOR Recertification Training Seminars (2)
- American Institute of Architects Academy for Health
- Healthcare Facilities Symposium – Microgrids/Sustainability
- CAHF – SNF Maintenance Workshop (No & So Cal)
- Healthcare Project Delivery Conference – Microgrids to the Rescue
- ASHE PDC Summit – CA making Microgrids work
- CDPH Seminars – Water Rationing Plans (2)
- Cities of San Diego and Irvine (OSHPD 3 Clinics)



¹ Details reported under the specific program report/presentation

Educational Webinars/Seminars

- Cities of San Diego and Irvine (OSHPD 3 Clinics) 8 & 11/24
- PIN 50 Integrated Review Webinar 08/24
- Construction Administration Proficiency (CAP) 06, 07, 11 & 12/24
- 2022 T-24 Intervening Update, Parts 1 & 2 Vol. 1 06/24
- Preapproved Fabricated Components and Systems 06/24



Other Stakeholders & Association Meetings

- CA Legislators
- National Institute of Standards & Tech (NIST)
- Facility Guidelines Institute (FGI)
- Building Seismic Safety Council (BSSC)
- American Society of Civil Engineers (ASCE) Committees
- International Code Council (ICC) Committees
- American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE)
- Applied Technology Council (ATC)
- Seismic Safety Commission
- Structural Engineers Association of California (SEAOC) Committees
 - Structural Engineers Association of Northern California (SEAONC)
 - Structural Engineers Association of Northern California (SEAOSC)
 - Structural Engineers Association of Northern California (SEAOSC)
- National Fire Protection Association (NFPA)
- Professional Engineers in Calif. Gov't (PECG)

CDPH and OSHPD Joint Issues, Task Force Groups, etc.

- **CDPH Program Flexures (Flex)**

- OSHPD consultations to CDPH's Program Flex Unit (CPFU)
- Occurrence: \pm 6/Week
- OSHPD & CPFU Joint monthly meetings
 - Typ. evaluate use of existing space temporarily for other services and may need some adjustment of the physical plant to accommodate that temporary use.
 - Occasionally, more complex assessment and may lead to providing guidance to the facility itself.

- **Purpose:** Provide valuable service!

- Utilizing specialized attributes only available when collaborating with both offices.

Professional Recognitions & Honors

COLLEGE OF FELLOWS
CALL FOR NOMINATIONS

COLLÈGE DES FELLOWS :
APPEL DE CANDIDATURES



**Roy Lobo, Ph.D. Elevated to the SEAOC
College of Fellows Class of 2024**

2024 Legislation to Extend 2030 Deadline

SB 1432 (Caballero)

Summary: Authorizes a hospital to apply for an extension up to 2035 after securing an HCAI-approved compliance plan and NPC-5 evaluation report.

Requires the identification of enforceable milestones which if not met MAY result in a fine, subject to appeals and HCAI discretion to waive the penalty.

Governor's Action: Vetoed

AB 869 (Wood)

Summary: Authorizes small, rural, critical access and district hospitals, and recipients of the Distressed Hospital Loan Program, to apply for an up to 3-year delay after securing an HCAI-approved compliance plan and NPC-5 eval rpt.

The compliance plan is used to identify enforceable milestones if adequate progress is not made, penalties apply.

HCAI discretion to extend the delay 2 add'l years.

Governor's Action: Signed

SB 1447 (Durazo)

Summary: Authorizes Children's Hospital of Los Angeles a delay of up to three years beyond the 2030 seismic safety compliance deadline if the delay is needed because of circumstances beyond the hospital's control.

Compliance plan and NPC-5 eval report must be approved by HCAI

The compliance plan will be used to identify enforceable milestones so if adequate progress is not made, CHLA is subject to penalties.

Governor's Action: Signed

2024 Legislation to Extend 2008 Deadline

SB 1119 (Newman)

Summary:

- Would have extended the seismic compliance deadline of January 1, 2025 (originally the 2008 deadline) which requires hospital buildings to be able to withstand a major earthquake without posing a significant risk of collapse and a danger to the public for four hospitals owned by Providence
- New compliance deadlines would have been between 2026 and 2027.

Governor's Action: Vetoed

2024 Legislation Related to OSHPD Programs

SB 1382 (Glazer)

Summary: This bill repeals a provision of law prohibiting building standards for outpatient clinical services of a hospital from being more restrictive or comprehensive than comparable building standards applied to licensed clinics.

Governor's Action: Signed

SB 1319 (Wahab)

Summary: This bill would authorize a licensed skilled nursing facility (SNF) that applies to provide therapeutic behavioral health programs to submit an application and receive approval from the Department of Health Care Services (DHCS), the Department of Public Health (CDPH), and the Department of Health Care Access and Information (HCAI) simultaneously.

Governor's Action: Vetoed



OFFICE OF THE GOVERNOR

For this reason, I cannot sign this bill.

Sincerely,

I share the author's goal to make the government review process more efficient for SNFs seeking to provide therapeutic behavioral health programs. However, a simultaneous application process, as proposed by this bill, would not shorten the application approval timeline as intended. HCAI, CDPH, and DHCS must sequence their reviews in the approval process. A facility must first meet the physical requirements for approval, then it can be reviewed for licensure, and only once licensed, may it be considered for Medi-Cal reimbursement. As such, requiring simultaneous review would result in the departments reviewing incomplete information, which could actually result in additional delays.

Though the simultaneous application process proposed in this bill is not feasible, I have directed HCAI, CDPH, and DHCS to identify any opportunities to improve communication and interaction during the review process.



The Functional Program

- California Administrative Code Section 7-119 (a) ...
 - *The [functional program] requirement applies to all scopes and disciplines of the project that affect patient care directly or indirectly, by means of new construction, additions, or modifications to specific hospital departmental functions which form an integral part of the facility.*



SUBJECT

Functional Program

PIN: 57

Effective: 3/10/2014



Programmatic information includes definition of the facility users (including types and number), the activities or services provided in the facility, and the required space, equipment and any spatial adjacencies needed to support those activities to allow them to function properly. Basic and Supplemental Services provided in health care facilities in California are regulated by the California Department of Public Health (CDPH). These requirements are consequently reflected in the California Building Standards Code (CBSC) and include minimum required Service Spaces and the minimum functional areas, spatial and equipment requirements within each of these Service Spaces. With the intent that the completed facility be licensed by CDPH to operate in California, a functional program should not include programmatic criteria that is contrary to minimum code requirements in the CBSC.

BACKGROUND

OSHPD is authorized and mandated to develop and enforce regulations for the construction of hospitals, skilled nursing facilities, and intermediate care facilities. OSHPD reviews projects for compliance with minimum code requirements and assesses the varying approaches facilities take in providing health care to meet the intent of the CBSC.



VERSION 1.4
NOVEMBER 1, 2024

CDPH ACCESS TO OSHPD REQUEST

-- INSTRUCTIONS FOR CDPH --

HCAI
2020 West El Camino Ave.

What is meant by CDPH Accessing Client Submittals at HCAI)?

The following are the various client submittals that HCAI/OSHPD submits to CDPH to make them aware and, on some, request concurrence from CDPH.

- Functional Program
- Functional Program – Pharmacy
- Functional Program – Dietary
- SNF Alternate Power Source Assessment
- Program Flex (Alternate Method of Compliance)
- Water Rationing Plan

The recipients at CDPH varies depending on the content of the request. Here are the various recipients at CDPH.

- CDPH County Office
- Cari.lee@cdph.ca.gov; Art.Woo@cdph.ca.gov; Rajvir.Sajjan@cdph.ca.gov
- NCU@cdph.ca.gov
- LSC@CDPH.ca.gov
- centralizedprogramflex@cdph.ca.gov
- CC'd on all emails to CDPH is Nate.Gilmore@hcai.ca.gov

Each notification to CDPH is in the form of an email. Within the email are links that will open the application to HCAI in eClient Access (<https://esp.oshpd.ca.gov>). CDPH staff can click the link in the email to open the eService Portal to the record. On the record details page, click the Record Info dropdown and select Attachments. Only documents related to CDPH are visible. Simply click the filename to download the document.

If the notification to CDPH is requesting concurrence or other type of response from CDPH, the sender of the email is the person at HCAI requesting the response. Reply to the email and the sender will become the recipient. Add the CDPH response into the email and send.

2024 Legislation Related to OSHPD Programs

AB 2376 (Bains) Chemical dependency recovery hospitals.

Summary:

- Summary: The bill would delete the requirement for chemical dependency recovery as a supplemental service to be provided in a distinct part of a general acute care hospital or acute psychiatric hospital, and instead would authorize those facilities to provide chemical dependency recovery services as a supplemental service within the same building or in a separate building on campus that meets specified structural requirements of a freestanding chemical dependency recovery hospital.
- The bill would also authorize chemical dependency recovery services to be provided in a general acute care hospital or acute psychiatric hospital without a distinct part, or outside the distinct part, in beds that are licensed for a service other than chemical dependency recovery if certain conditions are satisfied.

Governor's Action: Signed

2024 Legislation Related to OSHPD Programs

SB-1511 Health Omnibus. (Introduced by Committee on Health (Senators Roth (Chair), Glazer, Gonzalez, Grove, Hurtado, Limón, Menjivar, Nguyen, Rubio, Smallwood-Cuevas, and Wiener)

... H&SC §1418.22. SNF Alternative Power for no less than 96hrs

(f) A facility shall comply with the requirements of this section by January 1, 2026.



AB 2511 – SNF Assessment Submittals/Status of compliance (12/9/2024)

Qty	Assessment State
290	No Submittal
2	Submitted – In Review
54	Submitted – Remarkd & Returned to Client
2	Re-Submitted – In Review
5	Submitted – Pending Determination
752	HCAI Non-Compliant
0	HCAI Compliant - Awaiting CDPH Concurrence
32	HCAI Compliant – w/ CDPH Concurrence
1137	

847 (bracketed group of 2, 54, 2, 5, 32)

INCLUDES:

- 12 SNF in an OSHPD 1
- 5 CalVet SNF requested assessments

Process for SNFs to Comply w/ the Alternative Source of Power Requirements of AB 2511 to Protect Resident Health and Safety for no Fewer than 96 Hours During any Type of Power Outage

- Facility Systems Required to Comply w/ AB 2511**
- Heating System
 - Cooling System
 - Life-Safety Equipment (Ventilators, AED, Crash Carts)
 - Oxygen-Generation Devices (Concentrators, Positive Pressure Apparatus, and large-scale oxygen generation)
 - Emergency Generator(s)
 - Alternate Power Source(s) (Other than generator)

OPTION 1 - Assess Existing SNF Physical Plant for Compliance

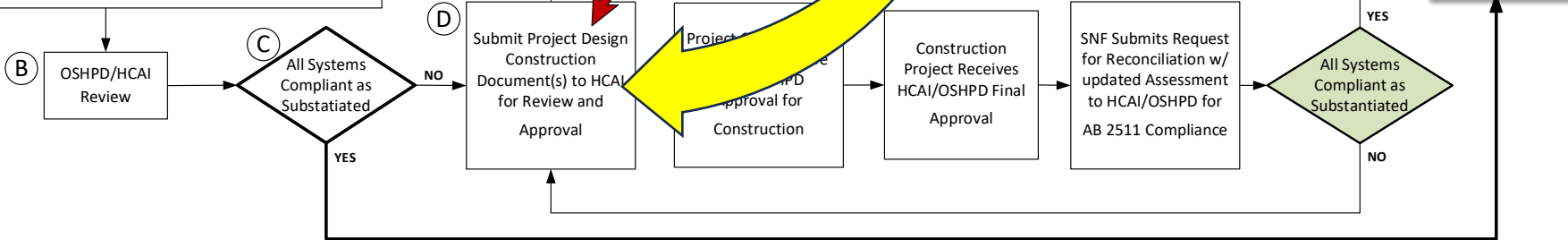
- Required Facility Assessment Documents Substantiating Compliance**
- HSC §1418.22 Facility Assessment Worksheet(s)
 - Floor plan showing location of all systems and area of coverage.
 - Documentation substantiating compliance for each system listed above with HSC §1418.22 .
 - Electrical single line diagram.
 - Local approvals as required

OPTION 2

- Plans
- Specifications
- Engineering Calculations
- Construction Cost Estimates

Progress To Date

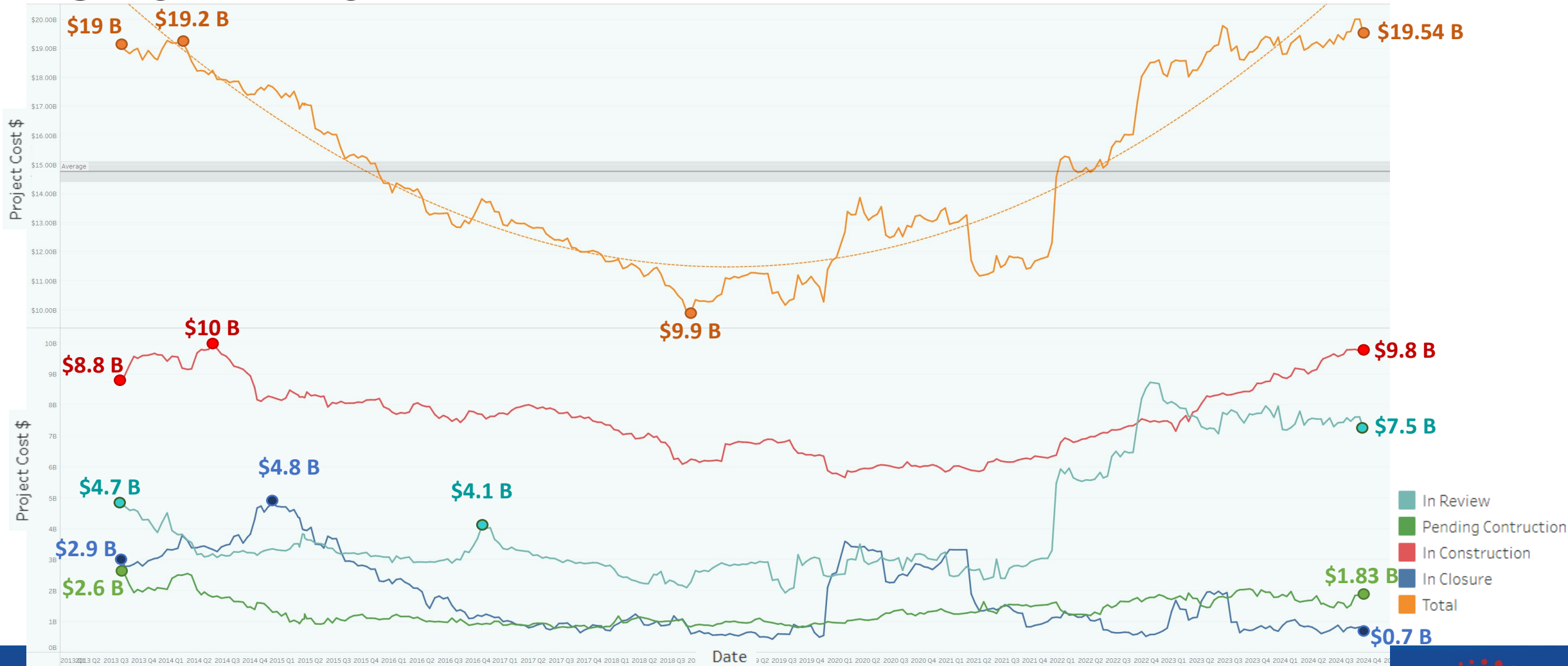
Qty	Assessment State
290	No Submittal
2	Submitted – In Review
54	Submitted – Remarkd & Returned to Client
2	Re-Submitted – In Review
	Submitted – Pending Determination
75	HCAI Non-Compliant
0	HCAI Compliant - Awaiting CDPH Concurrence
32	HCAI Compliant – w/ CDPH Concurrence
1137	



Plan Review and Field Performance Update

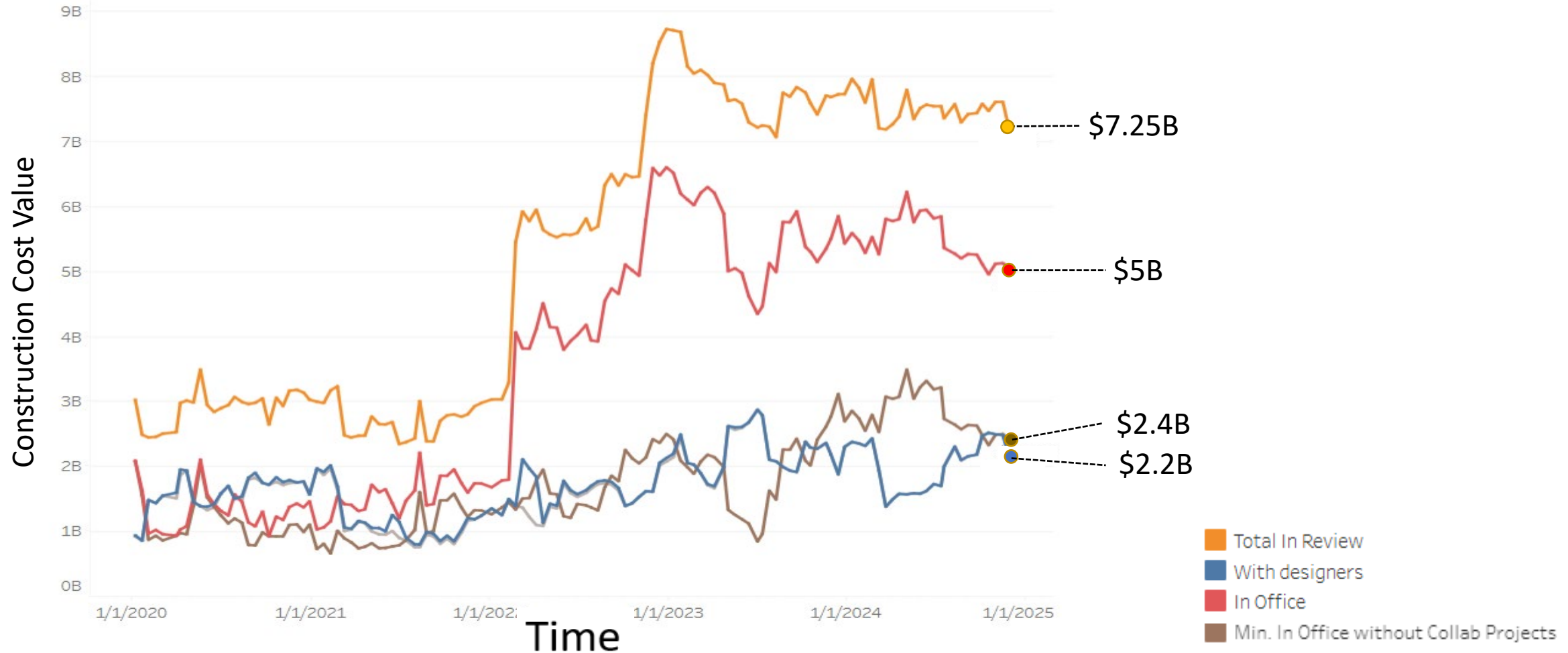


Workload in Construction Costs for Projects Over Time



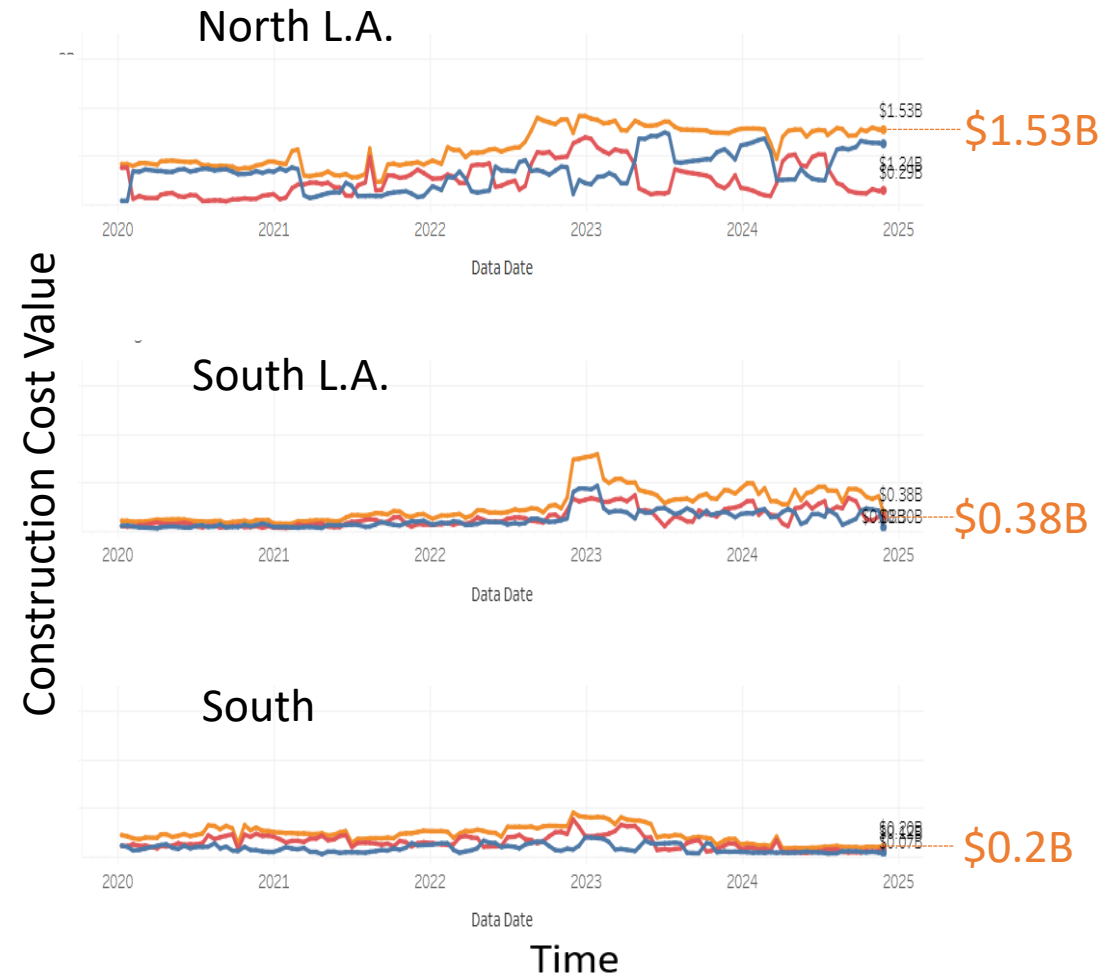
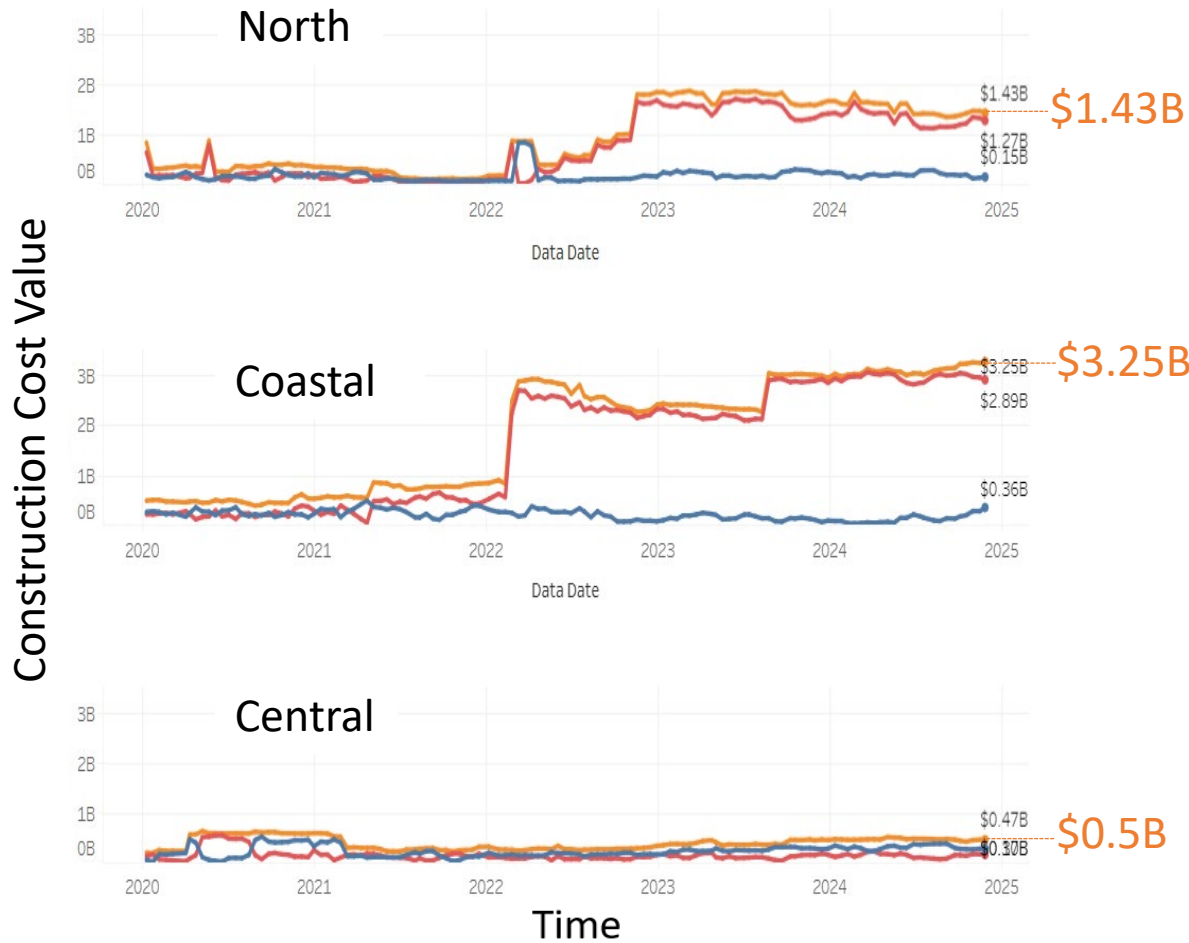
Who Has My Plans?

Office Total



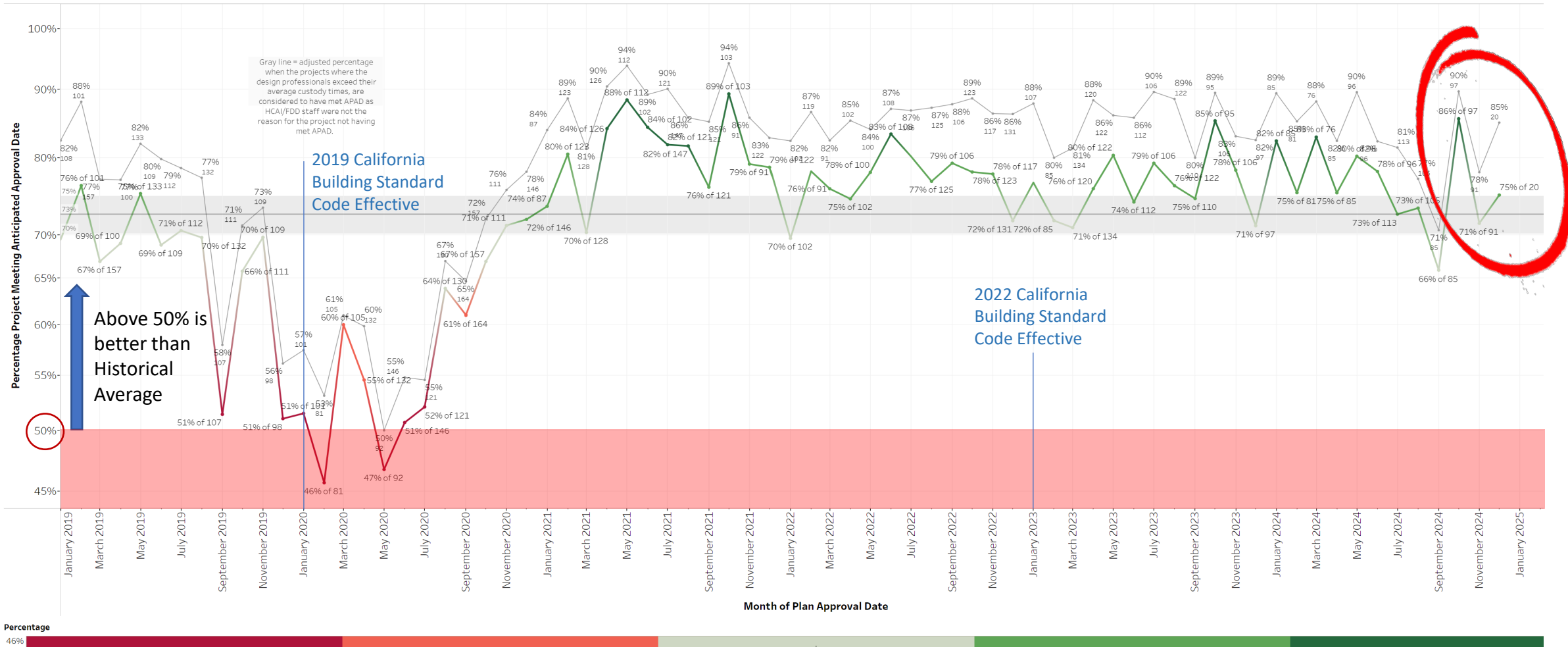
Workload per Region

■ Total In Review
■ With designers
■ In Office



Anticipated Plan Approval Date

Year over Year Comparison of Records Meeting or Beating APAD (Data as of 12/6/2024 6:08:30 AM):



Project Review Turnaround Times

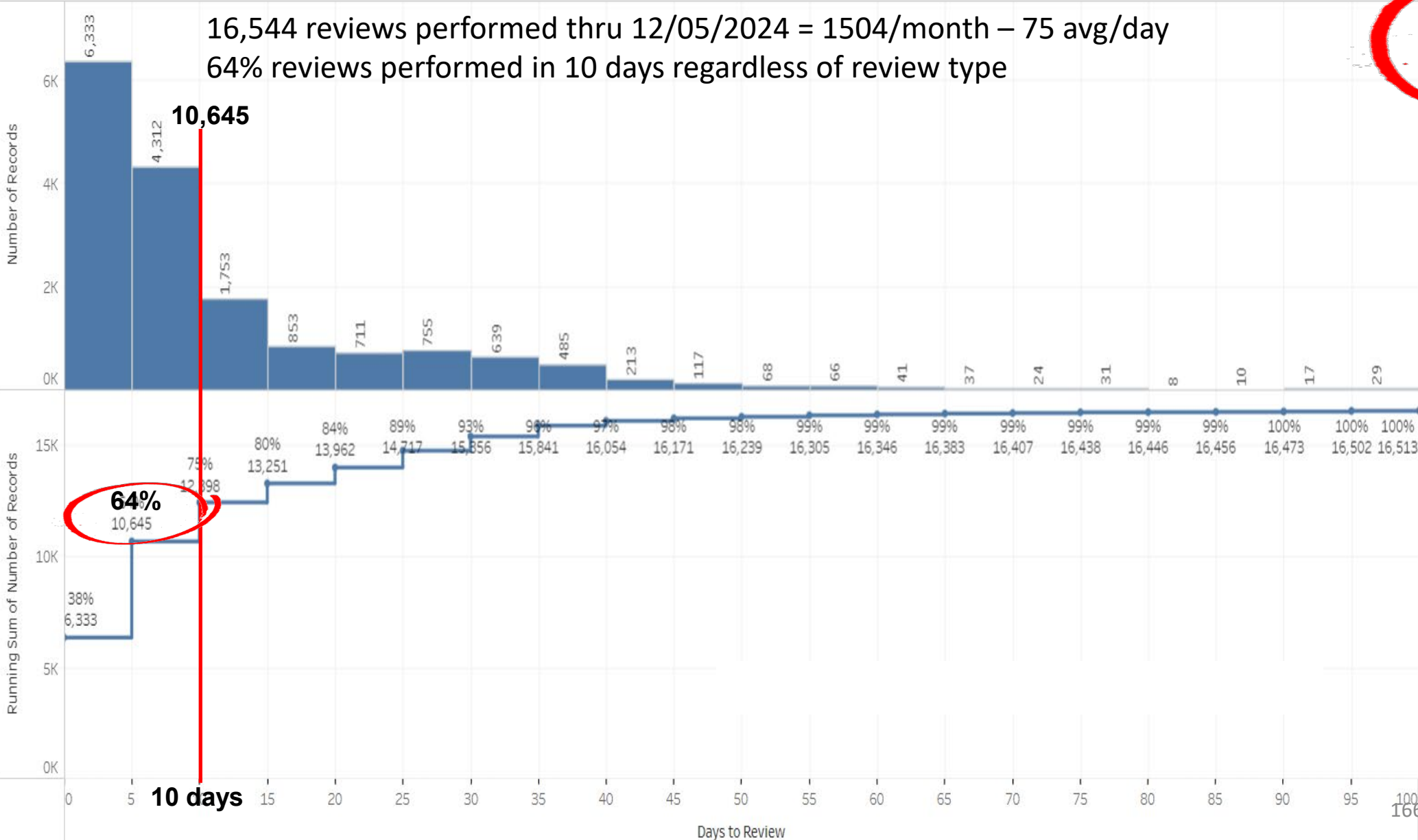
2024

Performance for Period Selected (1/2/2024 to 12/5/2024)

16,544 reviews performed thru 12/05/2024 = 1504/month – 75 avg/day
 64% reviews performed in 10 days regardless of review type

Number of Records
 16,544

Average Days to Review
 11.62



Results Date
 1/1/2024 to 12/31/2024

- Project Type
- (All)
 - Application for New Project
 - Incremental
- Office or Field Region
- (All)
 - Field Regions
 - Office Review Regions
- Assigned Region
- (All)
 - Central Region
 - Central Region - Field

- Backcheck
- (All)
 - Backcheck 0, First Review
 - Backcheck 1
 - Backcheck 2+

Office Reviews Only

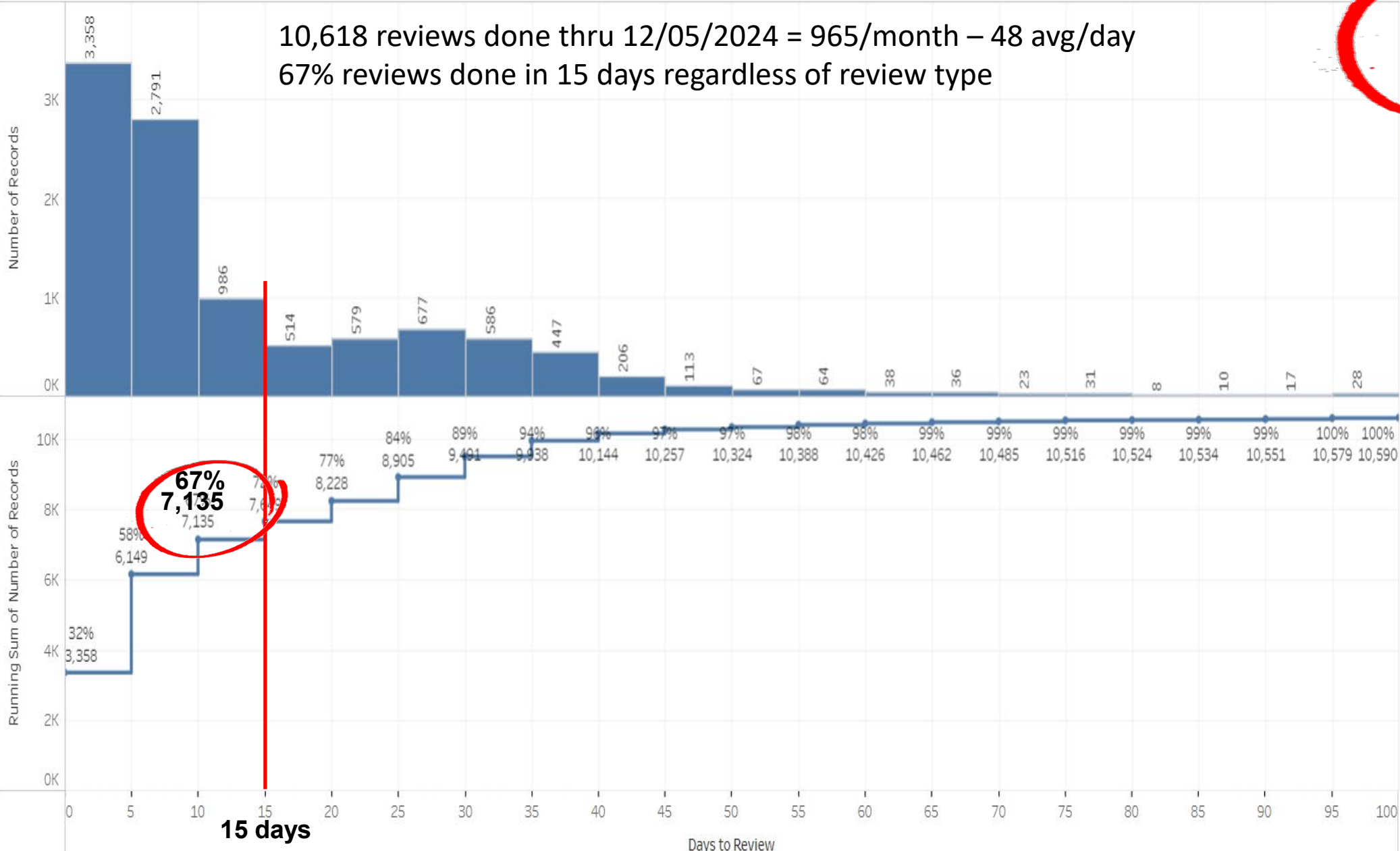
2024

Performance for Period Selected (1/2/2024 to 12/5/2024)

10,618 reviews done thru 12/05/2024 = 965/month – 48 avg/day
67% reviews done in 15 days regardless of review type

Number of Records
10,618

Average Days to Review
14.35



Results Date
1/1/2024 to 12/31/2024

- Project Type
- (All)
 - Application for New Project
 - Incremental
- Office or Field Region
- (All)
 - Field Regions
 - Office Review Regions

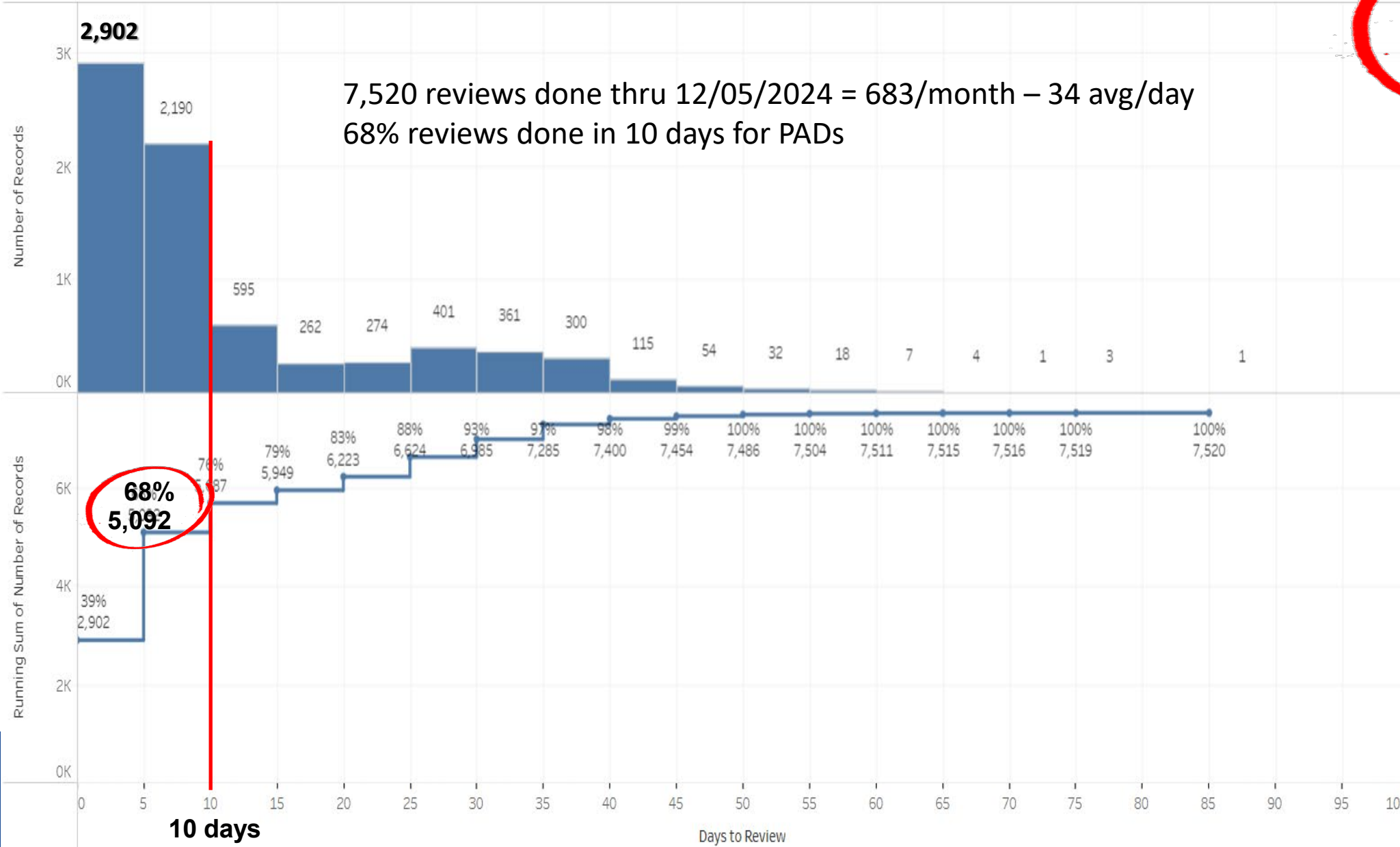
- Assigned Region
- (All)
 - Central Region
 - Coastal Region

- Backcheck
- (All)
 - Backcheck 0, First Review
 - Backcheck 1
 - Backcheck 2+

167

Office Reviews – Post Approval Documents 2024

Performance for Period Selected (1/2/2024 to 12/5/2024)



Number of Records
7,520

Average Days to Review
10.93

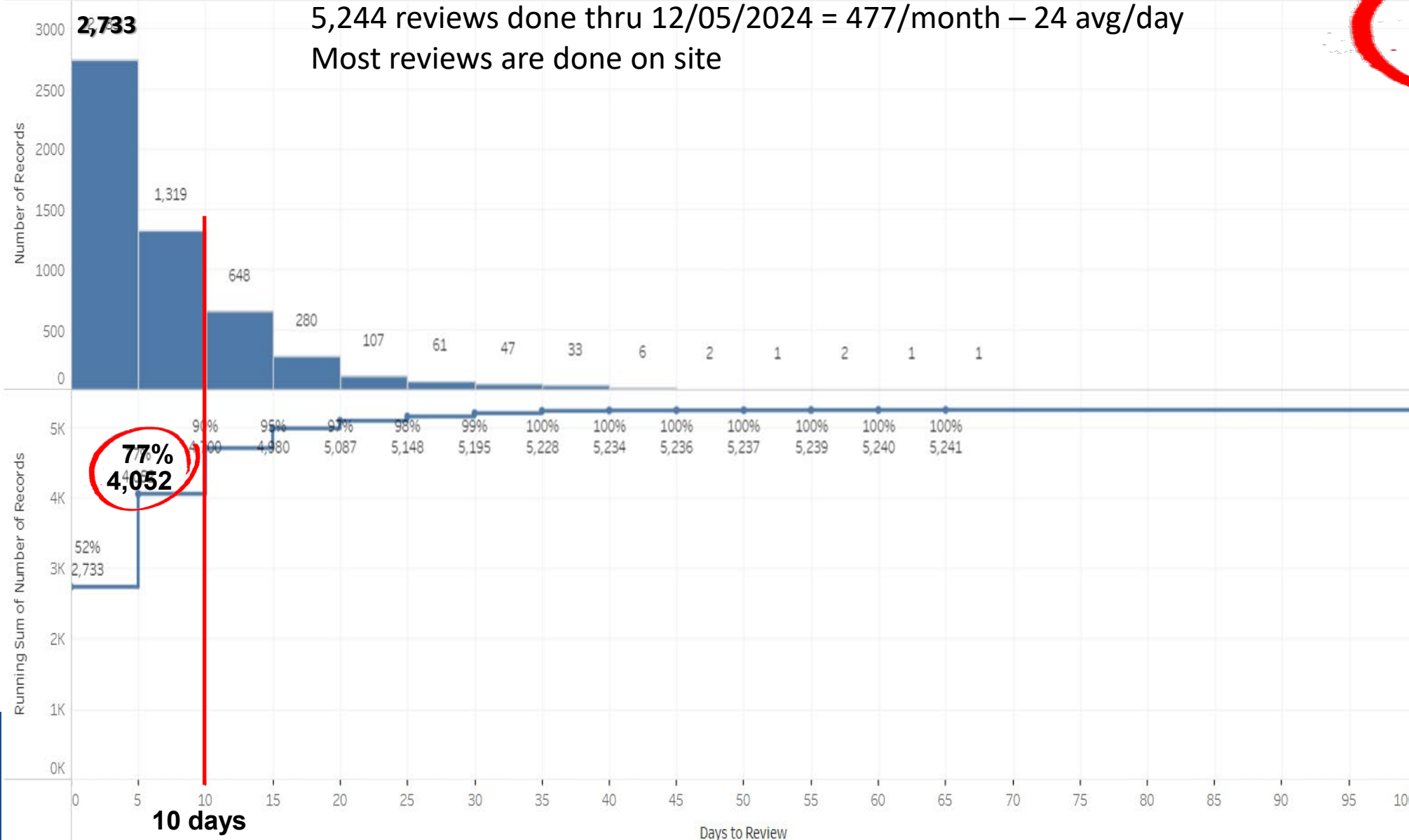
Results Date
1/1/2024 to 12/31/2024

- Project Type
- Application for New Project
 - Incremental
 - Post Approval Document
- Office or Field Region
- (All)
 - Field Regions
 - Office Review Regions
- Assigned Region
- (All)
 - Central Region
 - Coastal Region
- Backcheck
- (All)
 - Backcheck 0, First Review
 - Backcheck 1
 - Backcheck 2+

Field Reviews – Post Approval Documents 2024

Performance for Period Selected (1/2/2024 to 12/5/2024)

5,244 reviews done thru 12/05/2024 = 477/month – 24 avg/day
Most reviews are done on site



Number of Records
5,244

Average Days to Review
6.459

Results Date
1/1/2024 to 12/31/2024

- Project Type
- Application for New Project
 - Incremental
 - Post Approval Document
- Office or Field Region
- (All)
 - Field Regions
 - Office Review Regions

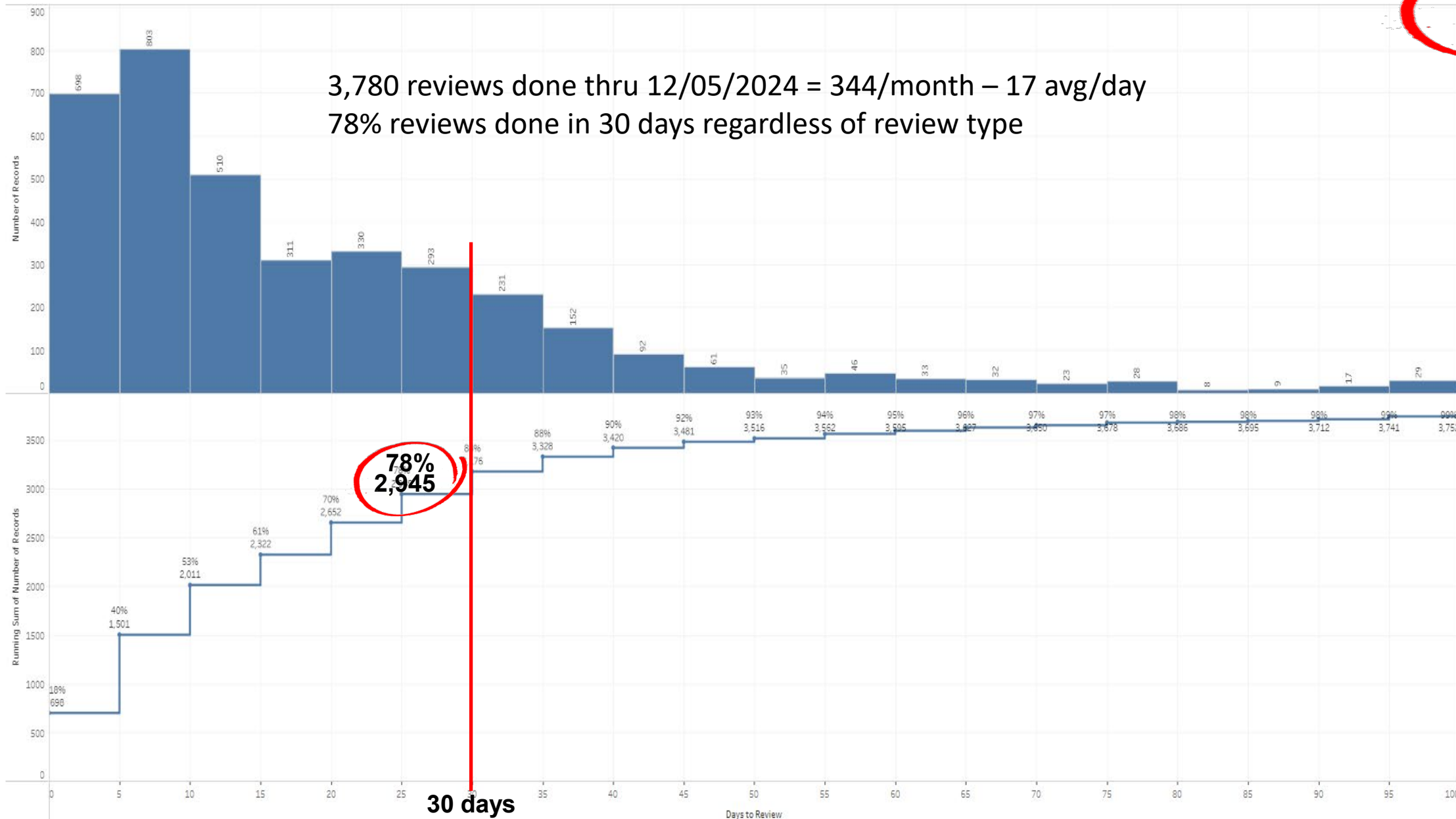
- Assigned Region
- (All)
 - Central Region - Field
 - Coastal Region - Field

- Backcheck
- (All)
 - Backcheck 0, First Review
 - Backcheck 1
 - Backcheck 2+

Office Reviews – New Projects + Increments **2024**

Performance for Period Selected (1/2/2024 to 12/5/2024)

Number of Records
3,780



Average Days to Review
20.16

Results Date
1/2/2024 to 12/31/2024

Project Type
 (All)
 Application for New Project
 Incremental
 Post Approval Document

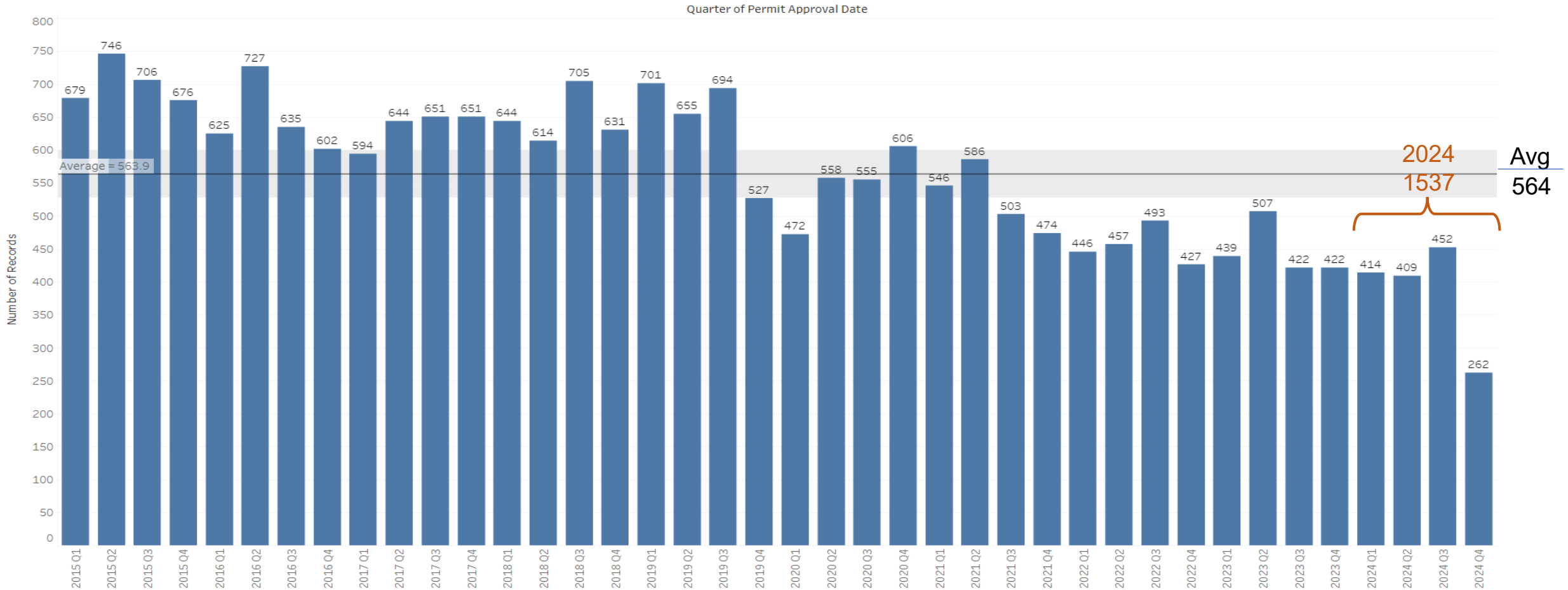
Office or Field Region
 (All)
 Field Regions
 Office Review Regions

Assigned Region
 (All)
 Central Region
 Central Region - Field
 Coastal Region
 Coastal Region - Field
 North Los Angeles Region
 North Los Angeles Region - Field
 North Region
 North Region - Field
 South Los Angeles Region
 South Los Angeles Region - Field
 South Region
 South Region - Field

Backcheck
 (All)
 Backcheck 0, First Review
 Backcheck 1
 Backcheck 2+

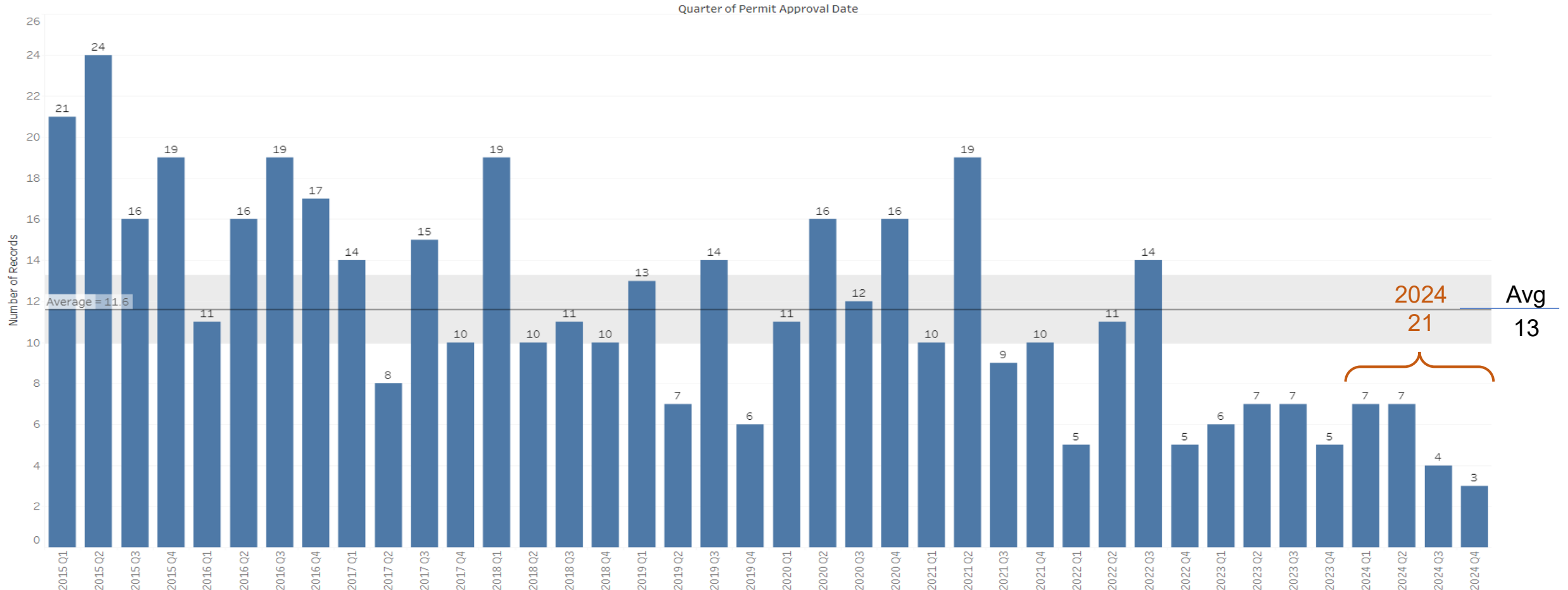
Building Permit Issuance Over 9 Year Period (by Qtr.)

Totals as of 12/4/2024 8:10:15 AM



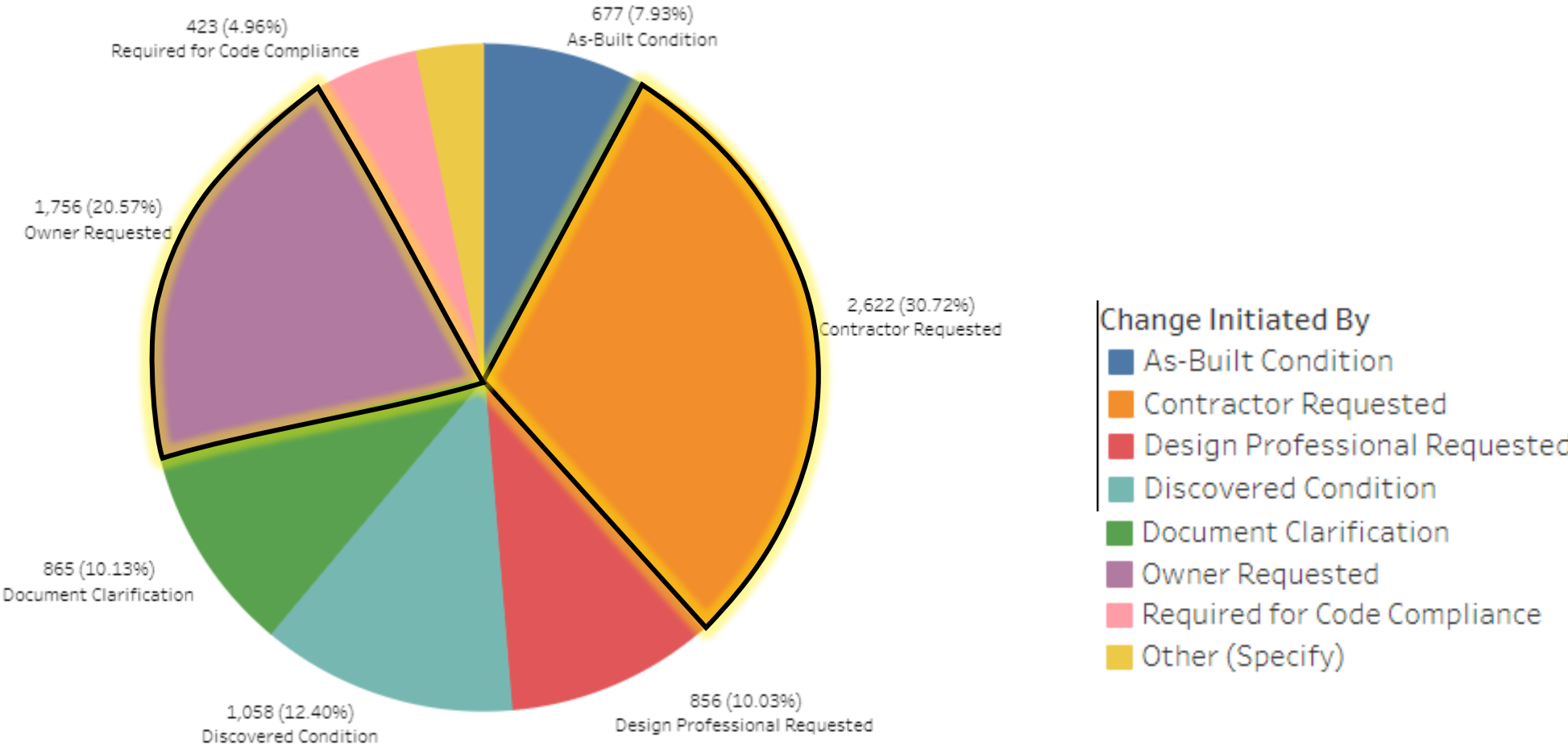
SB 1838s Over 9 Year Period (by Qtr.)

Totals as of 12/4/2024 8:10:15 AM



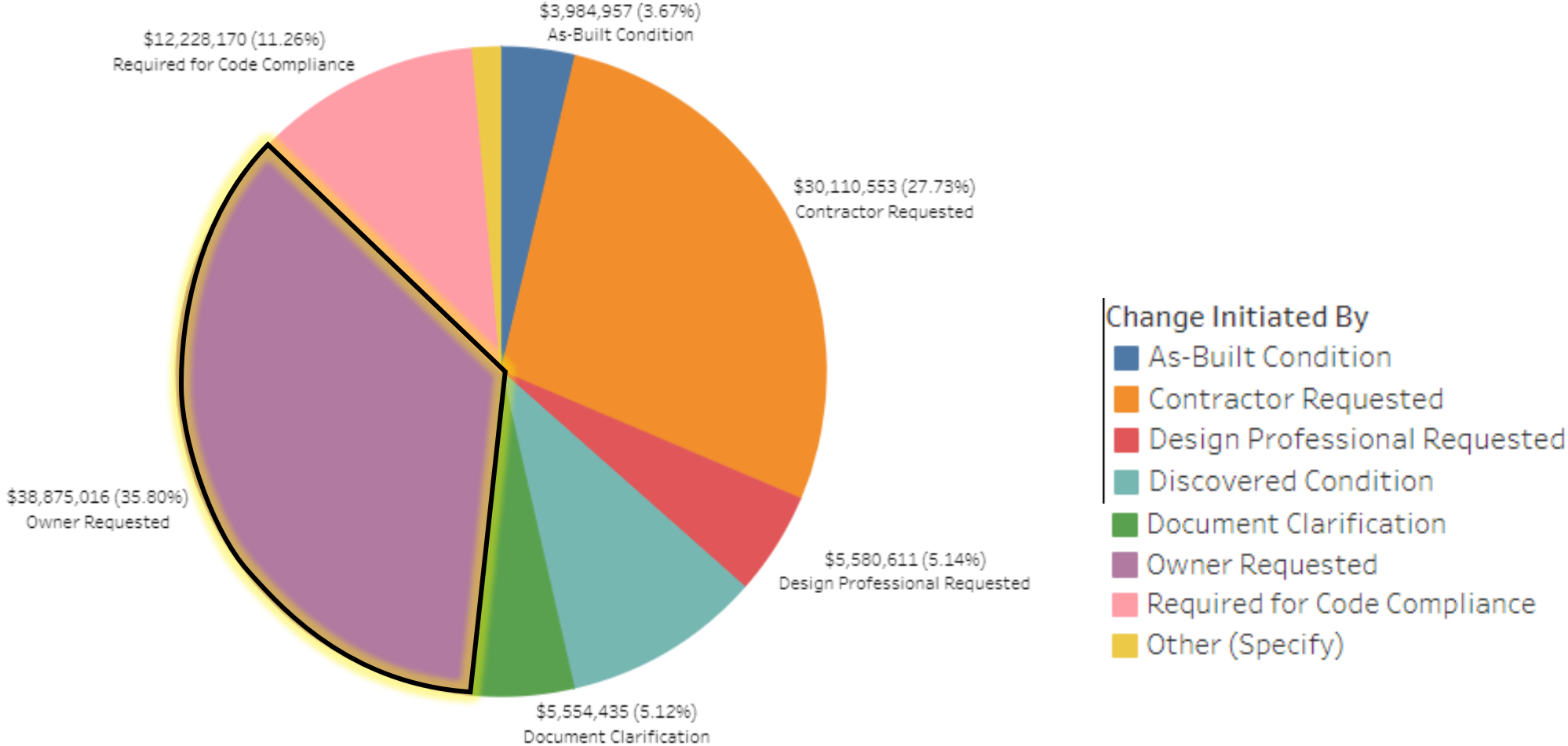
ACDs Where Reason Provided (2024)

Based on Count



ACDs Where Reason Provided (2024)

Based on Costs



Off-Site Prefabrication

Advantages of Off-Site Prefabrication

- Comparable Cost compared to standard construction
- Enhanced Quality Control and Quality Assurance
- Save time
 - Potentially no weather delays if fabricated inside
 - Quick fabrication and setup
- Fabricate anywhere, assemble on job-site
- Uniform assembly of components
- Off-site performance testing of components

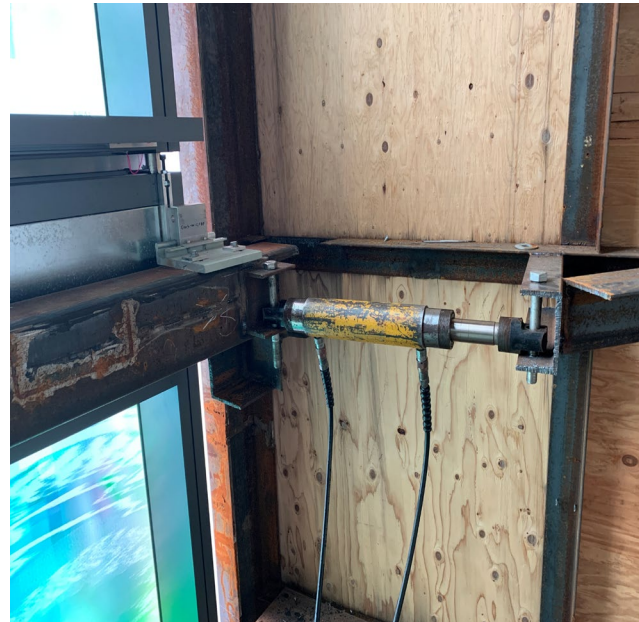


OSHPD 1 Project in Sacramento

- Preassembled modular exterior cladding
- Onsite building constraints
- Fabricated in Fresno California
- On-site special inspections



Curtain wall performance mockup



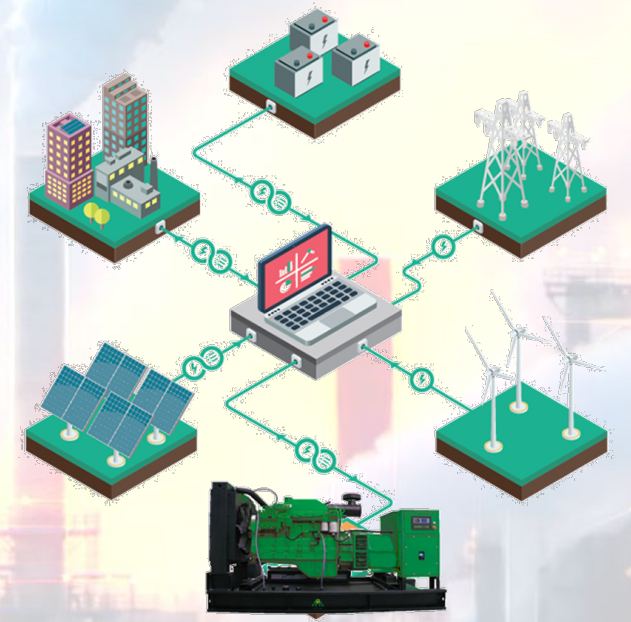
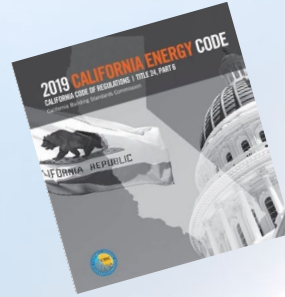
Seismic displacement actuator



Water spray apparatus and decorative wall components

Climate Change & Health Equity - The HCAI/OSHPD Response

- 2019 CBSC, Part 6 - Energy Code
 - Building Envelope
 - Mechanical Systems
 - Lighting systems
 - Domestic hot water systems
- Decarbonization
 - Operational Carbon
 - Microgrids
 - The all-electric hospital
 - Standard sequence of operations for ORs, ASHRAE Guideline 36
 - Embodied Carbon
- The self sufficient/sustained (“island”) Hospital
- . . .



Building Standards Unit

Mia Marvelli, BSU Supervisor





Building Standards Unit Duties

Architectural, Mechanical and Electrical Technical Lead Support for all Regions

Education and Outreach (CANs, PINs, Guides, Webinar)

State Agency coordination (CDPH, DHCS, DSA, SFM)

Industry coordination (CPCA, CAHF, AIA)

Develop Title 24 regulations

Analyze and Implement Legislation

Participate in National Codes and Standards development

Industry Conferences



HEALTHCARE
FACILITIES
symposium and expo

September 2024

Health Care Microgrids can
Lower Utility Costs, Meet
Sustainability Goals and
Increase the Resilience of your
Facility

Jamie Schnick, P.E.
Senior Electrical Engineer,
HCAI

Industry Conferences

HCAI partnered with CAHF for two in-person workshops in northern and southern CA.

Guidance on optimal facility management practices

- Building Systems Overview
- Emergency Power and Electrical Systems
- HVAC, Water Management, HAZMAT
- Inspection, Testing and Maintenance of Required Safety Systems
- Security Vulnerability Assessments and Lockdown Procedures
- Safety Officer and Infrastructure Branch



Long-Term Care & Skilled Nursing Facility Maintenance Workshop

Jamie Schnick, P.E.
Senior Electrical Engineer,
HCAI

Industry

Request to Speak:

August & September 2024

OSHPD 3 ~ CLINICS

City of San Diego Building Dept.

City of Irvine Building Dept.



Richard Tannahill, Mia Marvelli,
Jamie Schnick, Larry Enright

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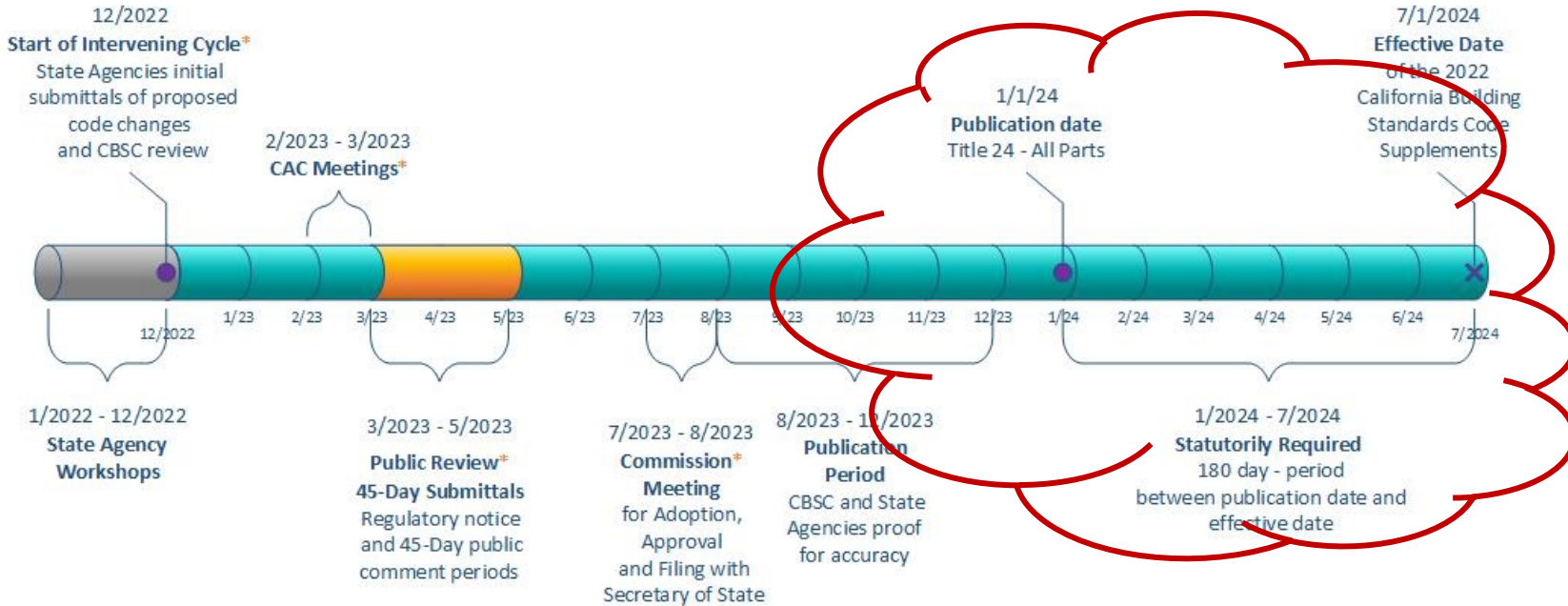
2022 CBSC Intervening Timeline



California Building Standards Commission

Amendments to the 2022 California Building Standards Code,
Title 24 Supplement July 1, 2024 Effective Date

2022 Intervening Code Adoption Cycle



- ✓ **Codification: Aug. - Dec. 2023**
- ✓ **Publish Date: January 2024**
- ✓ **Effective Date: July 1, 2024**

Code Advisory Committees:
 SDLF – Structural Design/ Lateral Forces
 PEME – Plumbing, Electrical, Mechanical & Energy
 HF – Health Facilities
 GREEN – Green Building
 BFO – Building, Fire & Other
 ACCESS – Accessibility

2024 CBSC Triennial Timeline

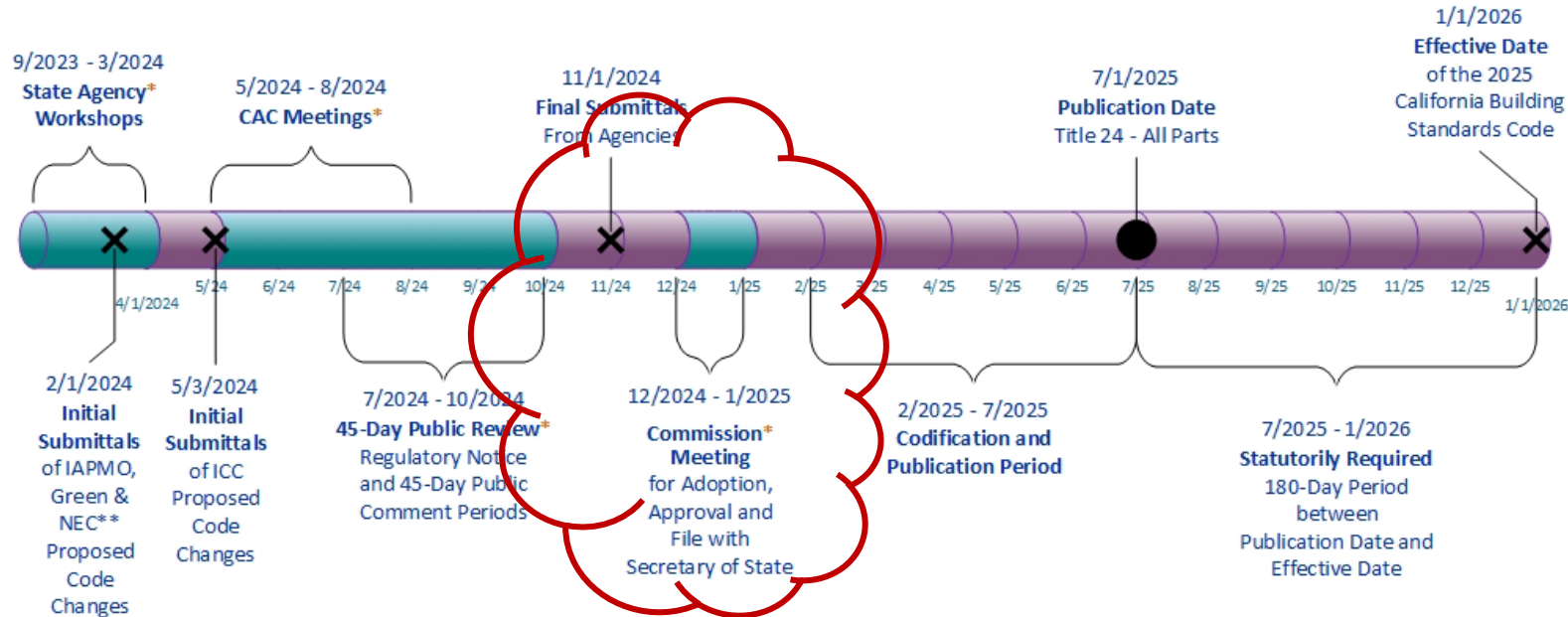


California Building Standards Commission

2025 California Building Standards Code, Title 24

Effective January 1, 2026

2024 Triennial Code Adoption Cycle



2025 edition of Title 24

- ✓ Sept. 28, Coordinating Council
- ✓ Initial Submittal early 2024
- ✓ Code Advisory Committee mtgs
- ✓ Public Comment periods Fall 2024

- **CBSC Commission meetings Dec. 2024 and Jan. 2025**
- **Publication July 2025**
- **Effective Date: Jan. 1, 2026**

Code Advisory Committees (CAC):

ACCESS – Accessibility
 BFO – Building, Fire & Other
 GREEN – Green Building
 HF – Health Facilities
 PEME – Plumbing, Electrical, Mechanical & Energy
 SDLF – Structural Design/Lateral Forces

Model Code Publishers:

ICC – International Code Council
 IAPMO – International Association of Plumbing and Mechanical Officials
 NFPA – National Fire Protection Association
 **NEC resubmittal if necessary

* Public Participation Opportunity

dgs.ca.gov/BSC
 (916) 263-0916

Rev. 02/2022

All dates are subject to change

Future Title 24 Timeline

2025 Edition of Title 24 (2025 Intervening Code Cycle - BLUE SUPPLEMENT)

May 2025, CBSC Coordinating Council Meeting

Jan. 2025 - December 2025 STATE AGENCY WORKSHOP PHASE

Jan. – Dec. 2025 meet with HBSB Committees

Dec. 2025 Initial Submittals due to CBSC

During 2025, implement the following Legislation

AB 2376 Chemical Dependency Recovery Hospitals

SB 1382 Clinic Construction Standards



Code Application Notices

- ❑ **CAN 1-0 Enforceable Codes (Revised May 2024)**

Reissued to clarify that the California Administrative Code is effective 30 days after filing with the Secretary of State.

- ❑ **CAN 2-0 OSHPD Jurisdiction (Revised August 2024)**

Revised to add Chemical Dependency Recovery Hospitals [OSHPD 6] to the introduction.

- ❑ **CAN 2-108 Temporary/ Interim Structures, Tents and Equipment Uses (Revised June 2024)**

Reissued to refer to the 2022 edition of Title 24 with the July 1, 2024 Supplement. Clarifies that only one extension will be granted for a building permit for temporary structures and temporary uses. Adds information from the California Administrative Code on who can prepare and submit construction documents and explains that temporary equipment may become interim equipment in specific circumstances. Adds a section on tents used for temporary purposes.

<https://hcai.ca.gov/facilities/building-safety/codes-and-regulations/#cans-pins-faqs>

Code Application Notices

- ❑ **CAN 3-517.30(B.1)(4) Health Care Microgrids as Type 1 Essential Electrical System (EES) Source (New June 2024)**

Provides minimum standards required for the health care microgrid to be considered to have sufficient reliability. Also, provides direction on how to meet the on-site fuel storage requirements for health care microgrid sources other than diesel generators.

- ❑ **CAN 1-7-153(b) Non-Material Alterations (NMA) (Revised July 2024)**

Revised to reflect 2022 Supplement changes to the California Administrative Code, Section 7-153(b)4. Clarifies how to handle full size sheets submitted as NMAs and adds information for NMAs not concurred within 4 weeks. Added repercussions for work performed without a concurred NMA.

- ❑ **CAN 2-1.10.6 OSHPD 6 Chemical Dependency Recovery Hospitals (New July 2024)**

Issued to explain the new classification of supplemental service, OSHPD 6, which was added during the 2022 Intervening Code Cycle. Clarifies OSHPD's jurisdiction for Chemical Dependency Recovery Hospitals [OSHPD 6].

<https://hcai.ca.gov/facilities/building-safety/codes-and-regulations/#cans-pins-faqs>



Code Application Notices

- ❑ **CAN 2-407.2.2 Nurse Stations (Revised October 2024)**

Updated code citations to the 2022 edition of Title 24. Edited to align with new Medicine Dispensing Unit CAN.

- ❑ **CAN 2-1224.4.4.4.2 Self-contained Medication Dispensing Units (New October 2024)**

Clarifies the code requirements that apply to the location, quantity, and size of self-contained Medication Dispensing Units (MDU).

<https://hcai.ca.gov/facilities/building-safety/codes-and-regulations/#cans-pins-faqs>



Policy Intent Notices

- ❑ **PIN 74 Skilled Nursing Facility Alternate Source of Power (Revised May 2024 & Dec. 2024)**
Reissued to permit fuel delivery if 96 hours fuel is not available onsite. Edited Special Seismic Certification section to clarify California Building Code sections, and Alternative Source of Power section updated to provide clarity. Edited the Onsite Source of Power Assessment section to clarify that the assessment is required and HCAI will review the assessment for compliance with HSC §1418.22 before sending to CDPH. Revised compliance due date to Jan. 1, 2026, pursuant to SB 1511 – Health Omnibus
- ❑ **PIN 76 Inspection Services Companies and Project Management: Ethical Practices and Incompatible Activities (New May 2024)**
Issued to clarify what constitutes conflict of interest for Inspection Services Companies performing consulting services and Project Management on OSHPD projects.



Policy Intent Notices

- ❑ **PIN 61 Reasonable Accommodation for Hospital Inspector Certification and Recertification Examinations (Revised August 2024)**

Revised to update address changes and contact information for the Department of Health Care Access and Information.

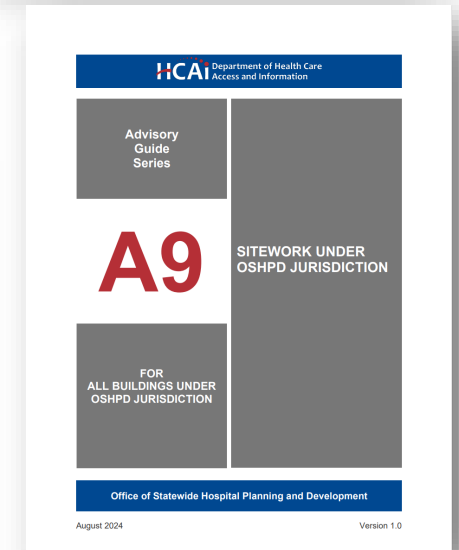
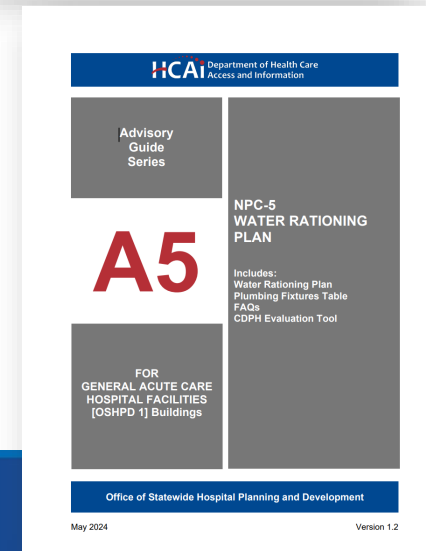
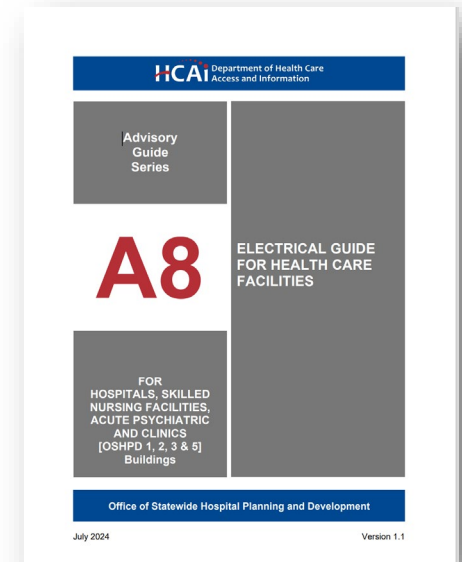
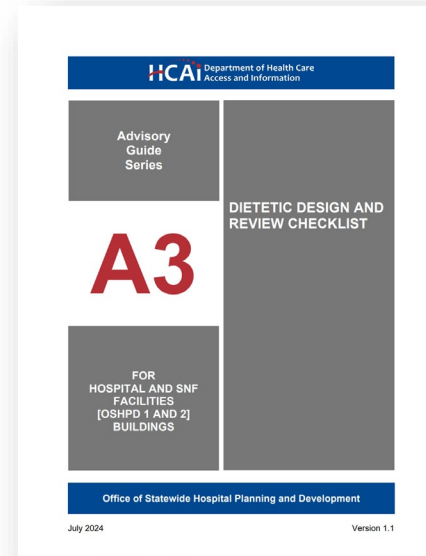
- ❑ **PIN 58 OSHPD Preapproved Agency (OPAA) for Tests and Special Inspections (New October 2024)**

Revised to expand the scope of the OPAA program to all disciplines from structural only and adds clarification for fire life safety acceptance.

Deliver Valuable Public Service

- 8 new/updated guides

Goal	Emphasis	Sub-Goals	Objectives
Goal #1 Deliver Valuable Public Service - Deliver Timely, Quality Customer Service & Experience	22%	1.1.0 Add value to the design and construction of healthcare projects	1.1.0.1 Increase completed Quality of Service surveys to 25% of services 1.1.0.2 Supervisors to assess how each of their staff adds value from the clients perspective to each project
		1.1.2 Develop and implement procedures and enforceable building standards to ensure safe and sustainable healthcare facilities	1.1.2.1 Number of building standards, PINs, CANs and processes that have HBSB input prior to submittal to Building Standards Committee. Target - 90%
		1.1.3 Increase IOR Competency & Adequacy	1.1.3.1 % of Projects with Completed IOR evaluations
			1.1.3.2 IOR training – Target 2 seminars per year per location
		1.1.3.3 IOR training – Target 2 videos or webinars per year	



Advisory Guides

- ❑ **Advisory Guide A3 – Dietetic Design and Review Checklist (Revised July 2024)**

Dietetic checklists updated to meet Title 22 and Title 24 code requirements. Requirements from other jurisdictions, such as CDPH and/ or local health departments, are added for reference in the dietetic checklists.

- ❑ **Advisory Guide A5 – NPC-5 Water Rationing Plan for Hospital Facilities (Revised May 2024)**

Addresses code requirements for the Nonstructural Performance Category 5 (NPC-5) water rationing plan to support 72 hours of emergency operations and frequently asked questions to HCAI OSHPD and CDPH. Adds a clarification for wastewater holding tanks and essential electrical power requirements for operating rooms.

- ❑ **Advisory Guide A6 – Alternate Source of Power to Maintain Safe Temperatures, Life-Saving Equipment, and Oxygen-Generating Devices (Revised July 2024 & Dec. 2024)**

Addresses frequently asked questions to OSHPD and CDPH as they relate to Skilled Nursing Facilities, OSHPD 2 Buildings, and Health and Safety code Section 1418.22 requirements.

Clarifies safe temperature ranges and Federal Code requirements, explains how safe temperatures can be researched and achieved, and includes Special Seismic Certification requirements. **Revised compliance due date to Jan. 1, 2026, pursuant to SB 1511 – Health Omnibus**

Advisory Guides

- ❑ **Advisory Guide A8 – Electrical Guide for Health Care Facilities (Revised July 2024)**
CBC code references in the X-ray section are fixed. July 1, 2024, mid-cycle code supplement incorporated into the guide. HSC §1418.22 requirements added in the SNF section. Added health care microgrids in Acute Care Facility Generating Units section.
- ❑ **Advisory Guide A9 – Sitework under OSHPD Jurisdiction (New August 2024)**
Intended to assist hospital design professionals determine what sitework that is under HCAI’s jurisdiction versus sitework that is under other jurisdictions.
- ❑ **Advisory Guide A13 – NPC Upgrade Construction Process for Existing Ceilings and Above Ceiling Utilities (New November 2024)**
Intended to expedite NPC upgrade construction for components at or above ceilings.

<https://hcai.ca.gov/facilities/building-safety/resources/training-education/>

Design Guides

- ❑ **Design Guide for Planning and Preparing for Disasters (New March 2024)**
Assists hospitals in planning and preparing for disasters, as well as offering solutions for resiliency and readiness for emergencies.
- ❑ **Design Guide for Working on Projects Under OSHPD Jurisdiction (Revised April 2024)**
Provides recommendations and tips for most stakeholders involved in the design and construction of hospital projects under the jurisdiction of OSHPD.

<https://hcai.ca.gov/facilities/building-safety/resources/training-education/>

Inspection Services Unit

Joe LaBrie, ISU Supervisor



ISU 2024 Goals:

GOAL	STATUS
Administration of Inspector Exams -: LA	ACHIEVED
Administration of Inspector Exams -: Sac	ACHIEVED
CO Academy	ACHIEVED
CO Monthly Meeting & Training	ACHIEVED
DPOR Training & Outreach w/ CAB/AIA (Construction Administration Proficiency CAP)	ACHIEVED
Enhanced IOR Monitoring with "+Training"	ACHIEVED
eTIO Development	IN PROGRESS
FCU Region Assignments / Back-Up	ACHIEVED
Field Brief Advice	ACHIEVED
Field Operation Manual	ACHIEVED
Field Practice Advisory Notices	ACHIEVED
Field Staff Quality/Consistency Monitoring & Training	ACHIEVED
HICE Exam 2022 Update	ACHIEVED
HICE Exam Automation	ACHIEVED
HICE Exam Reference Codes Procurement	ACHIEVED
Plan Review Support	ACHIEVED
IOR Utilization	IN PROGRESS
ISU IOR Supplemental Monitoring	ACHIEVED
Tip of the Day	ACHIEVED
Tips from the Experts Manual	ACHIEVED
HBSB Collaboration	ACHIEVED
Update Recert Training & Exam to 2022 Code Standards Changes	ACHIEVED
YouTube Training	IN PROGRESS

OSHPD Operational Plan - Goal #1

Goal	Emphasis	Sub-Goals	Objectives	Measure/Target	Data Source	Frequency	Coordinator
Goal #1 Deliver Valuable Public Service - Deliver Timely, Quality Customer Service & Experience	22%	1.1.0 Add value to the design and construction of healthcare projects	1.1.0.1 Increase completed Quality of Service surveys to 25% of services	25% completion rate/Yr	eSP	Yearly	OSHPD Execs
			1.1.0.2 Supervisors to assess how each of their staff adds value from the clients perspective to each project		QA/QC And Surveys	Quarterly	DDCs
		1.1.2 Develop and implement procedures and enforceable building standards to ensure safe and sustainable healthcare facilities	1.1.2.1 Number of building standards, PINs, CANs and processes that have HBSB input prior to submittal to Building Standards Committee. Target - 90%	90% completion rate	Regs Unit	Yearly	BSU/Tech Leads
		1.1.3 Increase IOR Competency & Adequacy	1.1.3.1 % of Projects with Completed IOR Evaluations	90% Completion Rate	eSP	Quarterly	ISU
			1.1.3.2 IOR training – Target 2 seminars per year per location	2 Per year	Inspection Services	Yearly	ISU
			1.1.3.3 IOR training – Target 2 videos or webinars per year	2 Per year	Inspection Services	Yearly	ISU

- IOR Daily Report
- IOR Web Page

IOR DAILY REPORT TEMPLATE

This is a voluntary template. IOR(s) that would like to use their own format need provide the template's content as stipulated in the regulations.

Date: _____
 Time: _____ Arrival; _____ Departure
 Inspector of Record (IOR): XXXXXXXX
 Certification No.: XXXXX
 HCAI Project No.:

The purpose of the IOR Daily Report is to "maintain field records of construction progress for each day or any portion of a day that they are present at the project site location". 2022 CAC 7-145

1. Summary of work in progress CAC 7-145(a)6:
XXXXXXXXXXXXXXXXXX
2. Note deficiencies in the construction CAC 7-145(a)6:
XXXXXXXXXXXXXXXXXX
3. Note deviations from the approved construction documents. CAC 7-145(a)6:
XXXXXXXXXXXXXXXXXX
4. Inspections performed, TIO Reference #. CAC 7-145(a)4:
XXXXXXXXXXXXXXXXXX
5. Document the time and date of all significant correspondence with the contractor regarding incomplete work, potential deficiencies or deviations which require the contractor's attention and could potentially affect the timely and compliant completion of the project. CAC 7-145(a)6:
XXXXXXXXXXXXXXXXXX
6. List of notification to the contractor, in writing, of deviations from the approved construction documents or new construction not in compliance with the California Building Standard Codes, which have not been immediately corrected by the contractor. CAC 7-145(b)
XXXXXXXXXXXXXXXXXX
7. Document the date, time and method of correction for any noted deficiencies or deviations. CAC 7-145(a)6:
XXXXXXXXXXXXXXXXXX
8. If Applicable, provide copies of all certificates, tags, marks or other evidence of material properties and/or manufactured components as required by the California Building Standards Code. CAC 7-145(a)6A.
XXXXXXXXXXXXXXXXXX
9. Concrete record, if applicable, including time and date of placing concrete, time and date of removal of forms and shoring in each portion of the structure, location of defective concrete, and time, date and method of correction of defects. CAC 7-145(a)6B.
XXXXXXXXXXXXXXXXXX
10. Identification marks of welders, lists of defective welds, and manner of correction of defects and other related events, as applicable. CAC 7-145(a)6C.

Training Programs in the Works

- Responsibilities and Competencies of HCAI/OSHPD Compliance Officers to Observe the Construction of Hospital Projects
 - ISU commissioned to improve OSHPD consistency in the field throughout the state
 - ConServ Meetings for all staff & CO Meetings
 - CO Academy
- The Design Professional's Role During the Construction of Hospital Projects
 - Training
 - Construction Administration Proficiency (CAP) Certification



Observed Practice in Hospital Construction Projects

- “Observation” is used interchangeably by IORs and Special Inspectors through out the state health care projects in
 - Inspection forms
 - Inspection reports
- Growing perception that this is an acceptable practice
- Approved Agencies have also demonstrated the use of this nomenclature in their work

Design Professional's & Others Role in Construction

3-Parts to the DPOR Certification - Construction Administration Proficiency (CAP) Training

Webinar – Part 1: June & November

- Preconstruction TIO Formulation
- Construction Kick-off meeting with OSHPD/HCAi
- Earn Personal Knowledge on Site through DPOR Site Visits

Webinar – Part 2: July & December

- Manage ACD & NMA logs, distribution & submittals
- Learn to create NMA application
- Learn to create & submit Amended Construction Documents

Written Exam on California Administrative Code

- Offered in Los Angeles & Sacramento in August
- Upon completion, professionals who pass receive AIA Credits & Listed on HCAi website

CAP Exam Once per year

Construction Administration Proficiency (CAP)



INSPECTION SERVICES UNIT
Office of Statewide Hospital Planning & Development

HCAI Field TIP OF THE DAY
Subject: CAP Exam Result Authored By: Monica Colosi
HCAI ISU CO

Construction Matters:

The OSHPD voluntary Construction Administration Proficiency (CAP) exams were held on July 23rd in Los Angeles, and on July 24th in Sacramento. HCAI and the Inspection Services Unit (ISU) would like to congratulate the candidates that passed the exam.



Today's Tip:

Congratulations to:

Omar	Barcena	Scott	Jensen	Marc	Rudy
Tim	Beemer	Matt	Johnson	Tamara	Sahagian
Zoe	Bick	David	Lin	Kelly	Schreihofner
Craig	Blackhurst	Gladys	Makabenta	Steven	Sequoia
Keith	Blazer	Amanda	Manning	Suzanne	Stahl
Stan	Cheung	Teresita	Marquina	RJ	Stanfield
Thomas	Coppin	Anthony	Martinez	Nathan	Steele
Robert	Crandall	Claudia	Mendizabal	Anupa	Suguraman
Kayla	Cunha	Paul	Morgan	Nathan	Thompson
Jessica	Files	Nathan	Morgan	Mark C. J.	Tu
Omar	Galvan	Geny	Munoz	Clarissa	Urquico
Miguel	Gonzalez	George	Narancic	Zhenyu	Wang
Jon	Gray	Martin	Ortega	Mikel	Weaver
Steven	Harvey	Sam	Ouyang	Tanner	Williams
Ryan	Hayashida	Charles	Parks	Bo	Wongkalasin
Jonathan	Heredia	Xiang	Qin	Nathan	Woods
Kimberly	Huffman	Paul	Reski	Larry	Yee
Branden	Ip	Russell	Rocker		

The Big Idea:

The candidates that passed the voluntary CAP exam received their Certification, and their names are listed on the [HCAI website](#). ISU will continue the CAP training Part 1 webinar in November, Part 2 webinar in December, and the voluntary CAP exam in January. Stay tuned for the Tip of the Day with registration for Part 1 and Part 2 webinars.



Structural Services Section

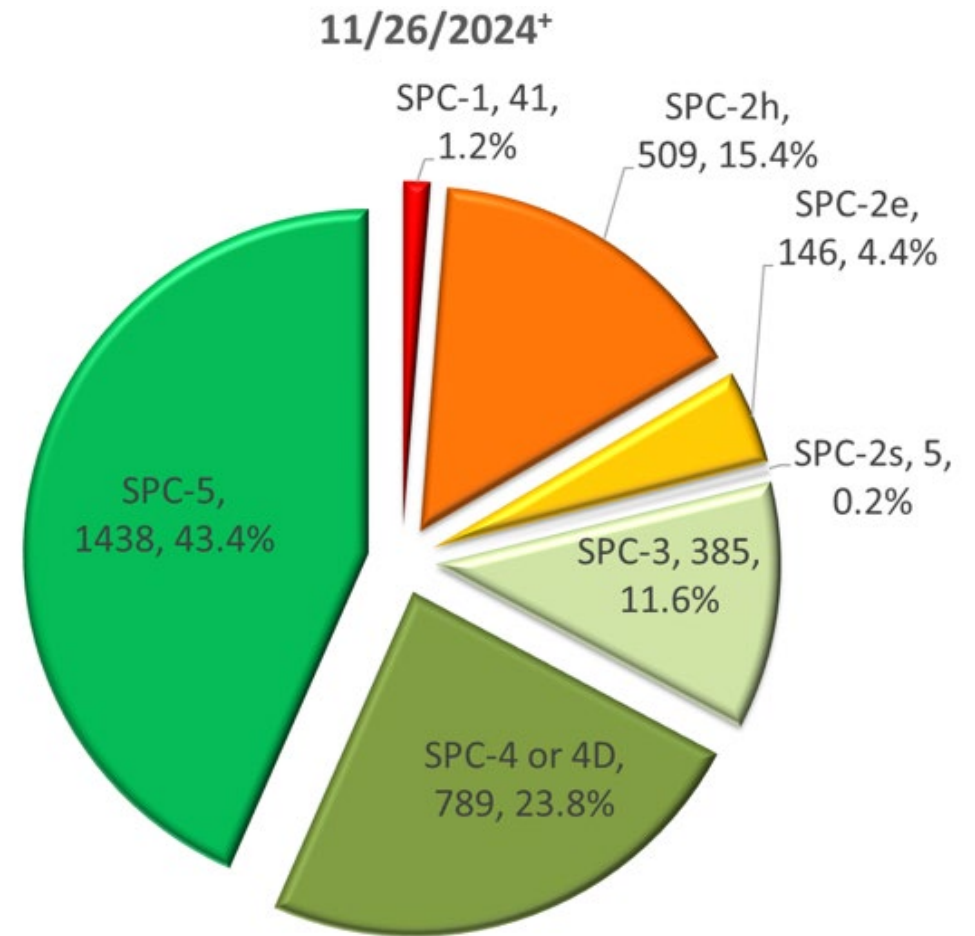
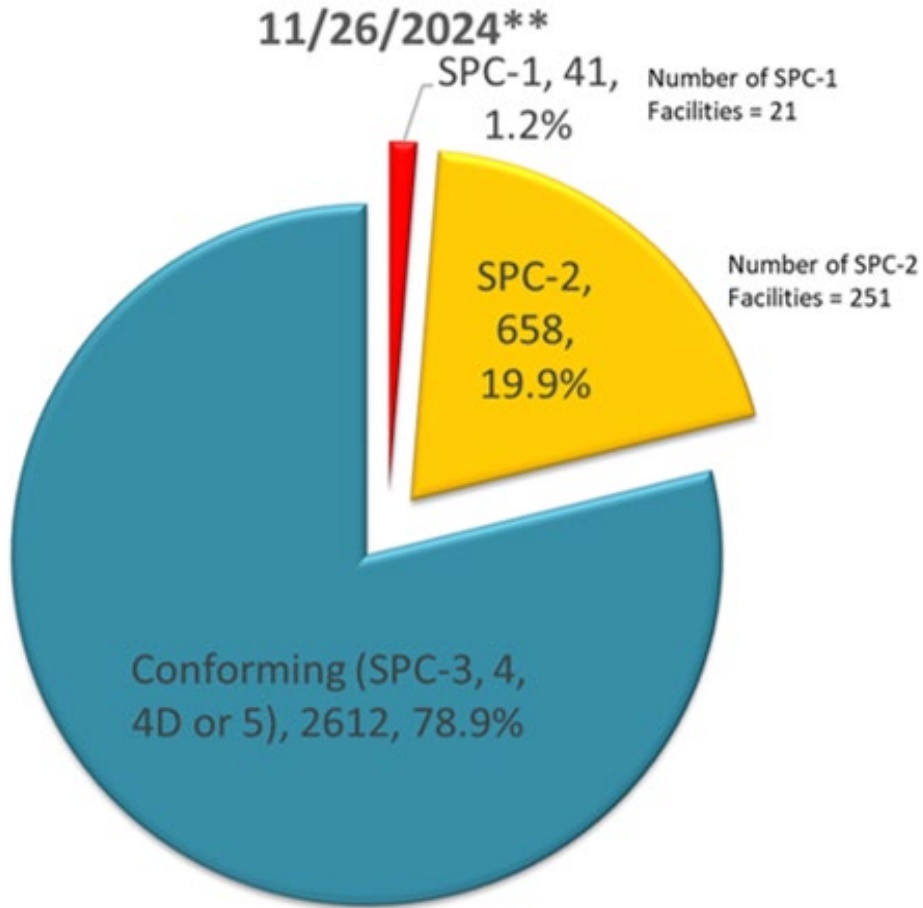
Roy Lobo, Principal Structural Engineer

Ali Sumer, Supervisor Seismic Compliance Unit

Structural Services Section Programs

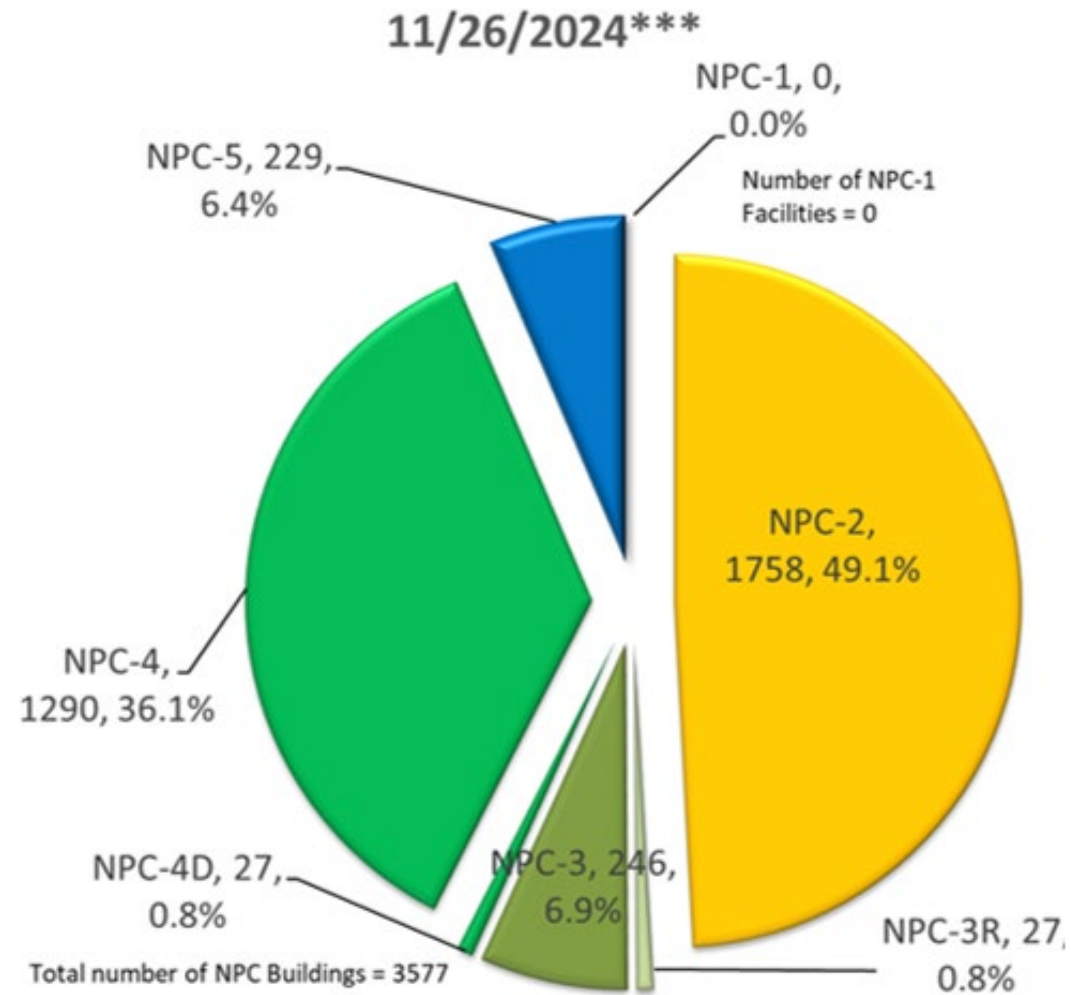
- Seismic Compliance
- OSHPD preapproved programs
- Structural/Nonstructural California amendments
- Geotechnical reviews
- Seismic instrumentation
- Structural training and support to the regions
- Management of contract out plan reviews
- Other Activities

Seismic Compliance (SPC)



Total number of SPC Buildings = 3311 in 412 Facilities

Seismic Compliance (NPC)



January 1, 2024 - Seismic Compliance Required Submittals

NPC Submittals (Required by California Administrative Code Chapter 6)

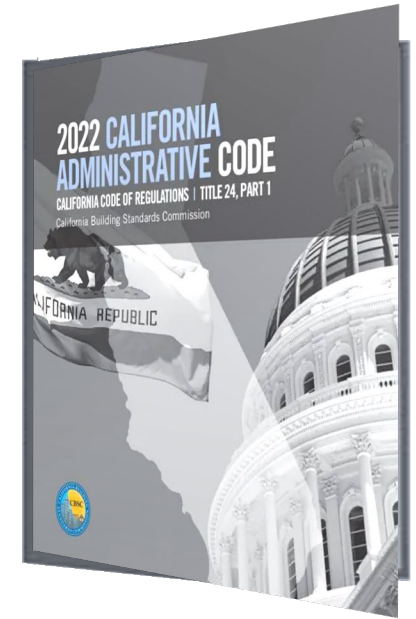
- NPC 3 compliance construction final document *[If GAC building is NPC 2 and located in extremely high seismic site – Seismic Design Category F]*
- NPC 4D Evaluation report including Operational Plan or NPC 4 Evaluation report
- NPC 5 Evaluation report including 72hr fuel evaluation and Water Rationing Plan
- Letter of Intent stating GAC services in the building will be removed by 1/1/2030 *[For GAC buildings planned to be removed from GAC services by 1/1/2030]*

AB 1882 Submittals

- Licensed GAC Services Reporting Application *[[All buildings under HCAI jurisdiction]*
- Signage Application *[All GAC Buildings]*

NPC Compliance Timeframe

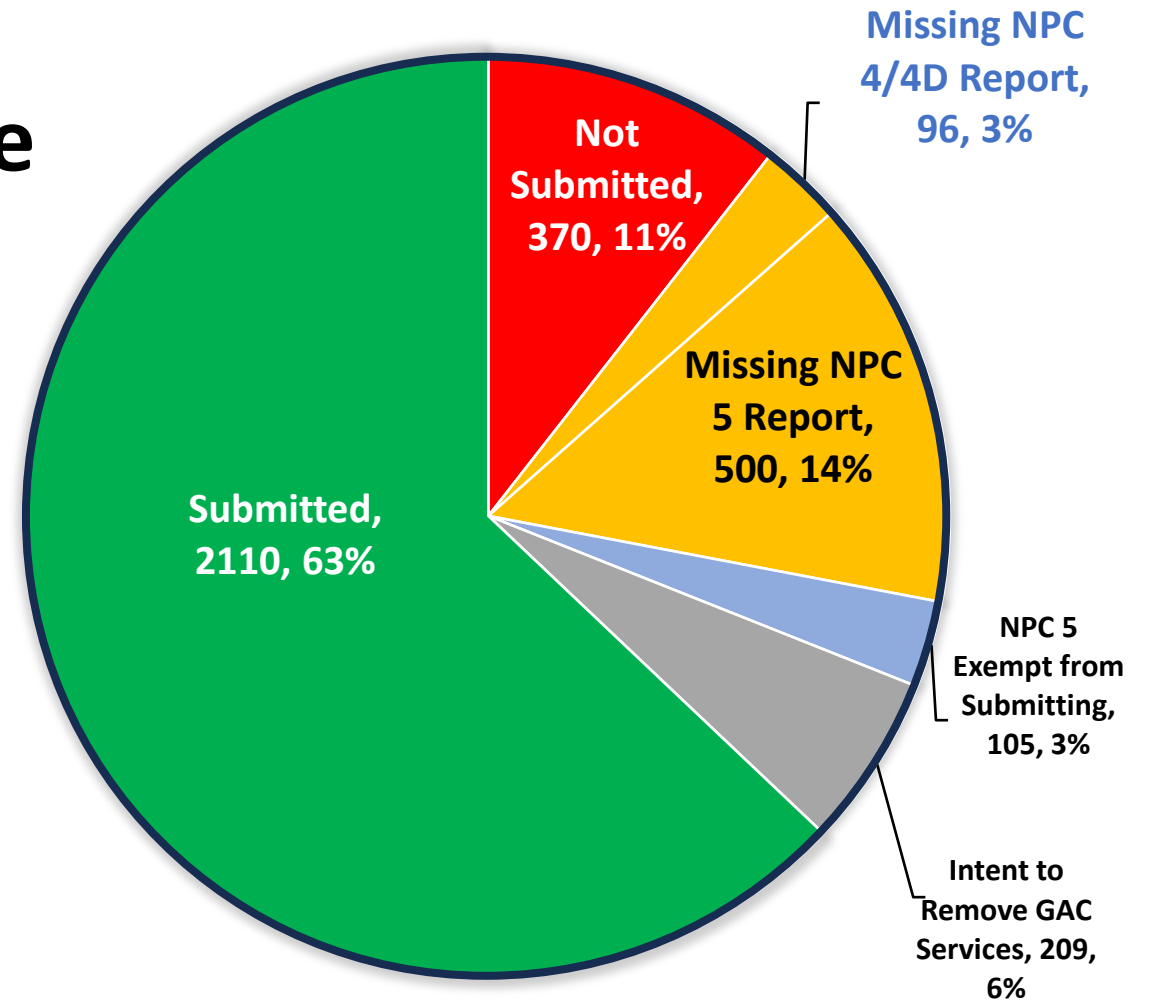
- For any General Acute Care Hospital in use as a GAC hospital building after January 1, 2030:
 - **By January 1, 2024**, submit to the Office a complete nonstructural evaluation for each building.
 - **By January 1, 2026**, submit to the Office construction documents ready for review by the Office.
 - **By January 1, 2028**, obtain a building permit to begin construction.
 - **By January 1, 2030**, the GAC building shall achieve NPC-5 rating



December 10, 2024 - Seismic Compliance Required Submittals

Non-Structural Performance (NPC) evaluations

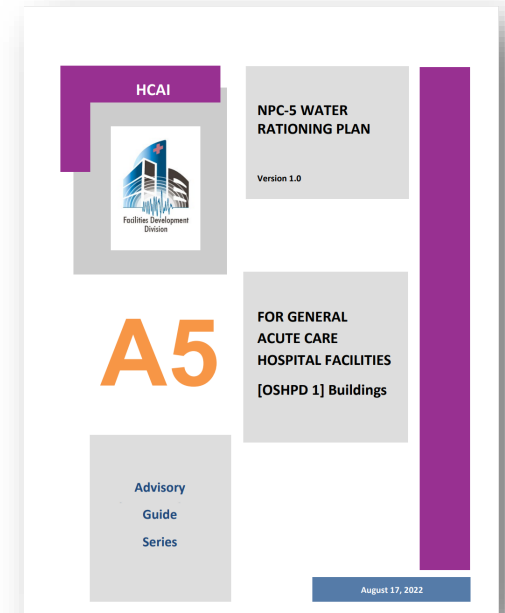
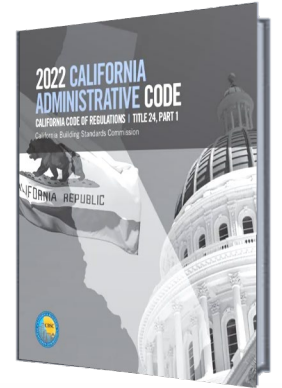
- 3453 Hospital ***Buildings*** (405 Facilities) required to submit evaluations



*of total 3390 No of Buildings

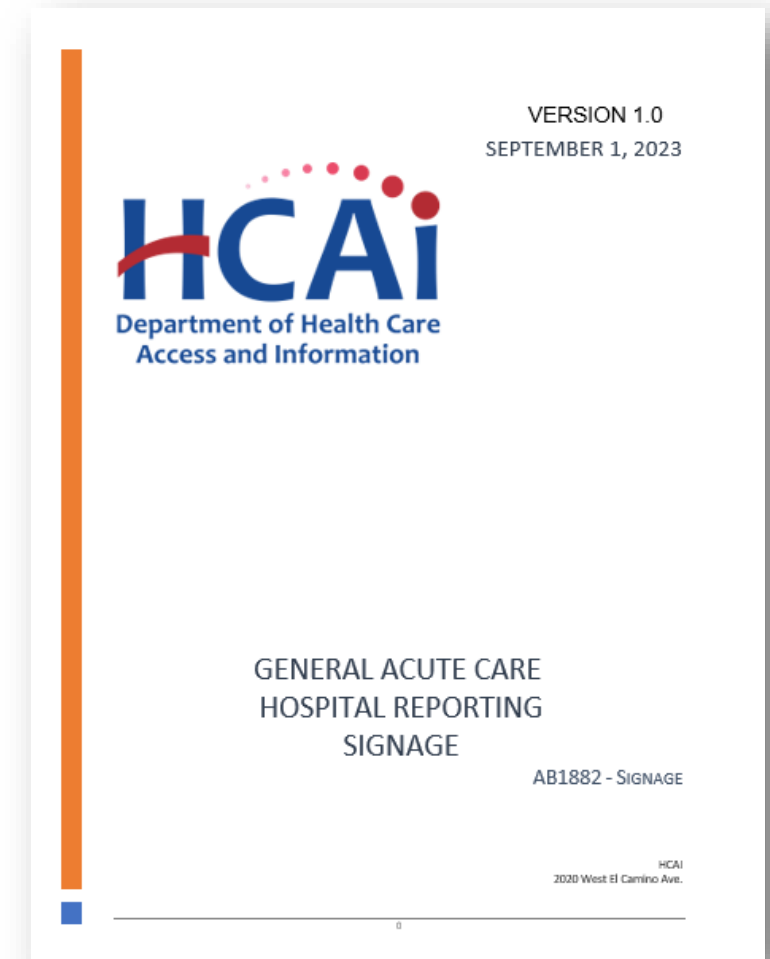
Hospital Water Conservation/Water Rationing Plans

- *“The emergency water storage capacity shall be computed based on an approved Water Conservation/Water Rationing Plan to provide for 72 hours of operation, accepted by the licensing agency” T-24, Part 5 CPC, Section 615.4*
- CDPH AFL Published on 06/30/2023
- HCAI and CDPH approvals are required for all water rationing plans
- Hospital Water Conservation/Water Rationing Plans
 - Required for NPC-5, 1/1/2030 compliance
 - 306 Water Rationing Plan submittals currently



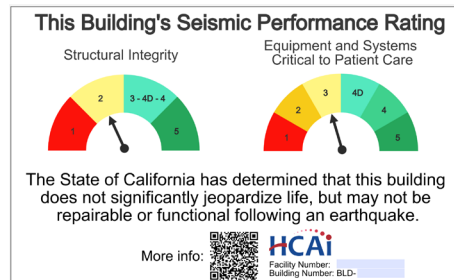
Seismic Compliance Signage Implementation*

- Application req'd to be submitted to HCAI
- Purpose?
 - Determine compliance
 - Field visit to the site to confirm placement of signage.
- Not a construction project.
 - No design professionals, contractors, inspector of record, etc. are members of this process.
 - No construction documents required,
 - Support staff involvement min
- Application uses standard eSP features and processes.
 - Staff familiar with the various steps to process this new record type.

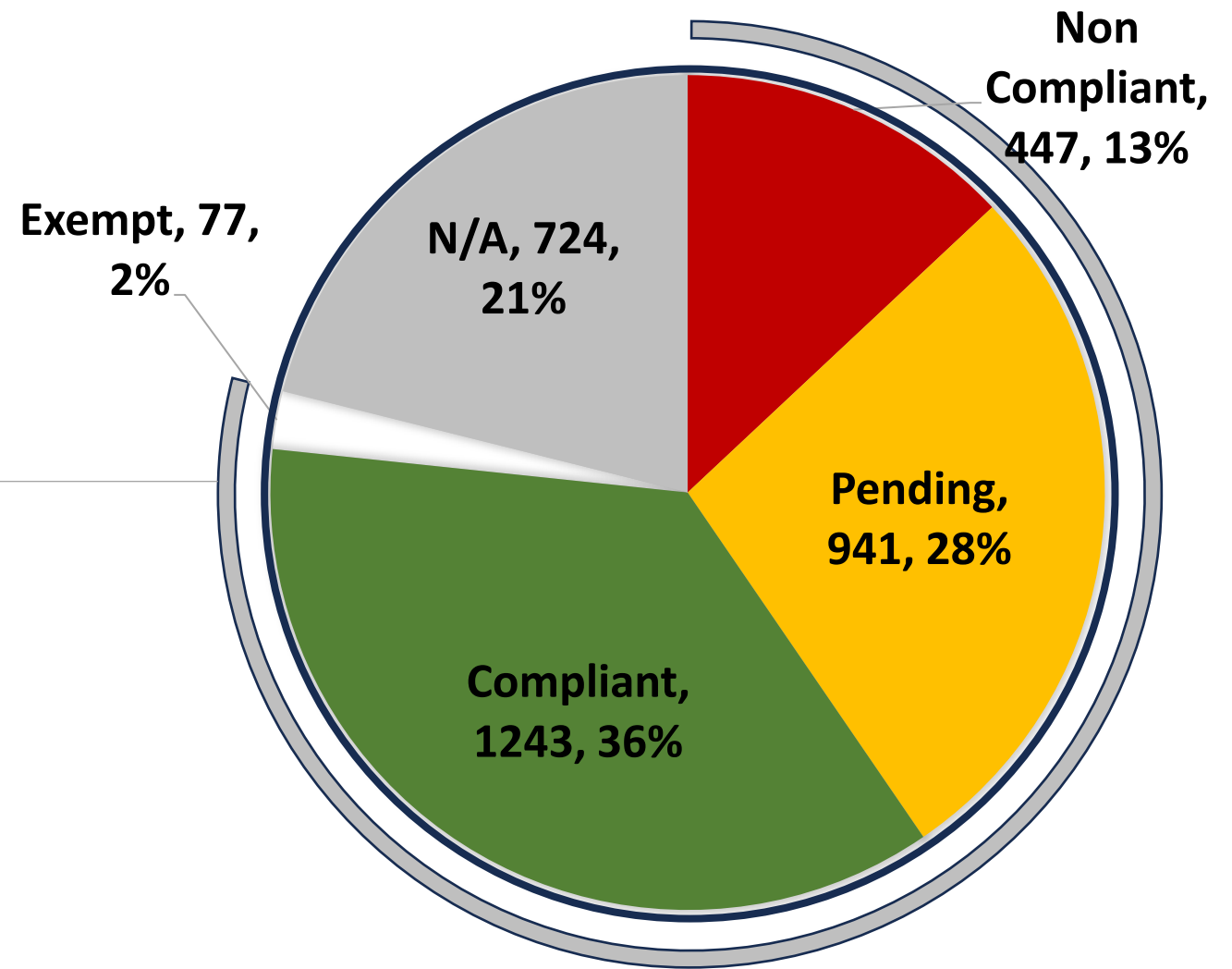


*AB 1882, Chapter 584, Stats, 2022

Notice of Non-Compliance w/ the Seismic Safety Requirements*



- 2708 Hospital ***Buildings*** required to be posted noticing the patients or the public



*AB 1882, Chapter 584, Stats, 2022

Notice of Non-Compliance w/ the Seismic Safety Requirements*



* AB 1882, Chapter 584, Stats, 2022

Annual Reporting* of Services Provided in Each Hospital Building on the Hospital Campus Status (12/10/24)

- 2024 Reporting Deadline 1/1/2025
- Hospital services reporting applications received
 - 195 facilities applications received



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*AB 1882, Chapter 584, Stats, 2022

- Building & Construction Projects
- eServices Portal (eSP)
- Forms, Training, and Resources
- Facility Detail
- Preapproval Programs
- Codes and Regulations
- Seismic Compliance and Safety
- Hospital Inspection Services



of Health Care Access and Infor
ewide Health Planning and Development. HCAI is committed t

< Back to Building Safety and Finance

Facility Detail

Click on the **Facility List Drop-down** below and scroll to find and select a facility. Or click the drop-down and begin typing a facility name or number to filter the list. Data is updated every 2 weeks.

New: AB 2190 Quarterly Reports are now available.

For accessible copies of facility site plans [email Seismic Compliance Unit](#).

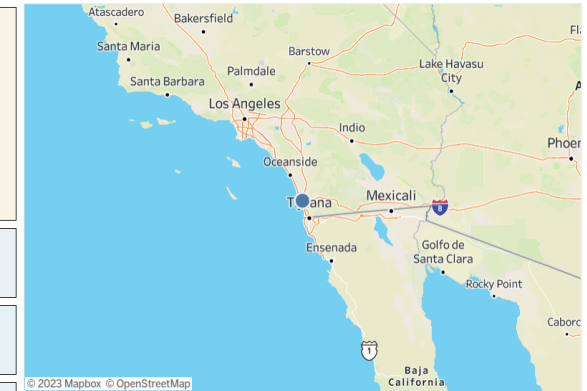
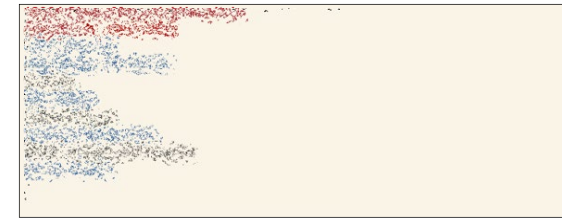
- Facility Info
- Building List/Seismic Info
- Building Services**
- Instrumented Buildings
- AB2190 Report
- Unauthorized Construction
- Building Operational Plan

Show facilities:

- (All)
- Do not have AB 2190 Extensions
- Have AB 2190 Extensions

Facility List Drop-down

hospital



Plan Review Supervisor:
Diana Navarro (213) 620-6506
Diana.Navarro@hcai.ca.gov

Regional Compliance Officer:
Michael Marrs (916) 284-2672
Michael.Marrs@hcai.ca.gov

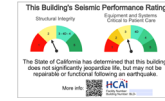
Compliance Officer:
Thomas Shanks (818) 470-6934
Thomas.Shanks@hcai.ca.gov

District Structural Engineer Name:

© 2023 Mapbox © OpenStreetMap

*Click on the dot to view in Google Maps.

NPC Reporting Compliance Status – HCAI Web Page



Seismic Performance
Rating Signage

Bldg Num	Bldg Name	Classification & Status	RACs Date	NPC Status	Building Code	Year Built	Stories	Height in Feet	Instrumented	Construction Type	Sprinklered	AB1882 Signage
BLD-01918	Original Hospital Building / Additions	OSHPD 1, In Service	1/1/2030	1/1/2030 * NPC 4/4D Rpt: Submitted 12/26/2023 NPC 5 Rpt: Submitted 12/30/2023	1943 Uniform Building Code (UBC)	1947	1	15	No			Pending SPC: 2 NPC: 2 This building does not significantly jeopardize life, but may not be repairable or functional following an earthquake
BLD-01919	Building Block No. 2	OSHPD 1, In Service	1/1/2030	1/1/2030 * NPC 4/4D Rpt: Submitted 12/26/2023 NPC 5 Rpt: Submitted 12/30/2023	1946 Uniform Building Code (UBC)	1947	1	15	No			Pending SPC: 2 NPC: 2 This building does not significantly jeopardize life, but may not be repairable or functional following an earthquake
BLD-01920	1976 Alterations & Additions	OSHPD 1, In Service		1/1/2030 * NPC 4/4D Rpt: Submitted 12/26/2023 NPC 5 Rpt: Submitted 12/30/2023	1973 California Building Code (CBC)	1979	2	Unknown	No			Compliant SPC: 4 NPC: 2
BLD-01921	Two Story Addition West	OSHPD 1, In Service		1/1/2030 * NPC 4/4D Rpt: Submitted 12/26/2023 NPC 5 Rpt: Submitted 12/30/2023	1985 California Building Code (CBC)	1996	2	Unknown	No			Pending SPC: 4 NPC: 2

[Back to Main](#)



Applicable Year
2023

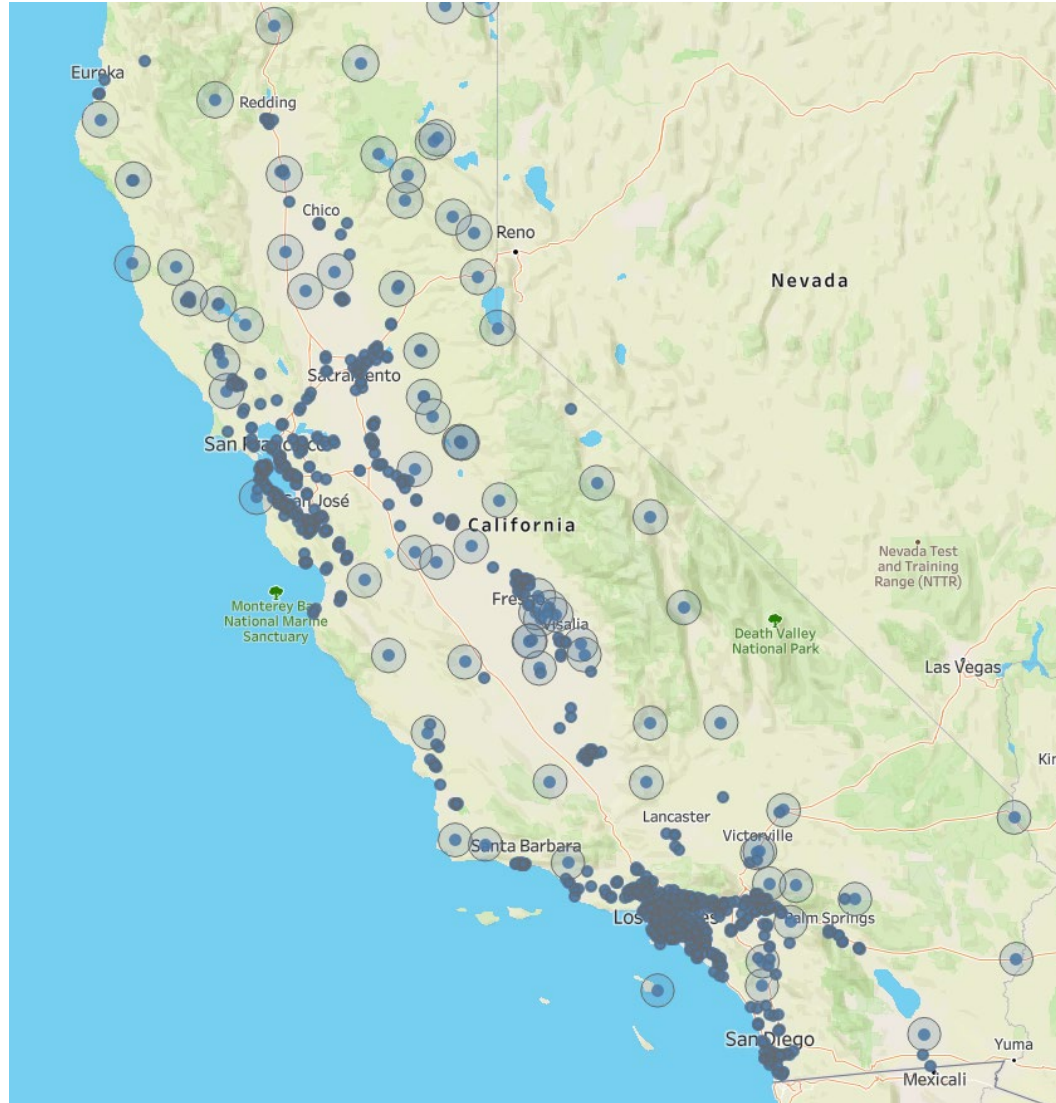
Hospital

Bldg Num	Bldg Name	Applicable Year	Nursing Med Surg	Surgical	Anesthesia PACU	Clinical Lab	Imaging Radiological Diagnostic Imagin	Pharmacy	Dietetic	Administrative	Sterile Processing	General Storage	Morgue	Employee Dressing	Housekeeping EVS	Laundry Linen	Special Procedures	ICU CCU PICU	Burn Unit	Neonatal Intensive Care Unit	Pediatric Adolescent Nursing Unit	Psychiatric Nursing	Obstetrics Perinatal Unit	Emergency	Nuclear Medicine	Rehabilitation Therapy	Physical Rehabilitation Nursing Unit	Renal Dialysis	Respiratory	Intermediate Care	Outpatient Services	Skilled Nursing Unit	Central Plant Utility Bldg	Canopies Corridor Buildings Tunnels	Non GAC Uses	
BLD-01130	North Tower - East Building	2023	X			X																														SPC: 2 NPC: 2 This building does not significantly jeopardize life, but may not be repairable or functional following an earthqu...
BLD-01131	North Tower - Central Building	2023					X			X								X											X							SPC: 2 NPC: 2 This building does not significantly jeopardize life, but may not be repairable or functional following an earthqu...
BLD-01132	North Tower - West Building	2023			X					X																										SPC: 2 NPC: 2 This building does not significantly jeopardize life, but may not be repairable or functional following an earthqu...
BLD-01133	Inter-Hospital Passageway	2023																													X				SPC: 2 NPC: 2 This building does not significantly jeopardize life, but may not be repairable or functional following an earthqu...	
BLD-01134	South Tower	2023	X	X		X			X	X	X				X			X																		SPC: 2 NPC: 2 This building does not significantly jeopardize life, but may not be repairable or functional following an earthqu...
BLD-01135	Rehabilitation Center	2023																							X					X						SPC: 3 NPC: 2
BLD-01136	Emergency / Radiology	2023				X	X			X														X	X											SPC: 2 NPC: 2 This building does not significantly jeopardize life, but may not be repairable or functional following an earthqu...

SPC = Structural Performance Category
 NPC = Nonstructural Performance Category
 SPC and NPC are applicable to Hospital Buildings only
 3s, 4s and 5s indicate SPC/NPC rating self-reported by the hospital and not verified by OSHPD

[Download PDF](#)

Small & Rural Hospital Relief Program



- \$1,175K awarded to date:
 - \$280K Mee Memorial Hospital
 - \$180K Kern Valley District
 - \$625K approved – Mad River NPC-3
 - \$65K Oak Valley, \$25K Plumas districts
- **\$7.2M +\$50M** transferred into Fund 3391 total to date
- 38 Applications Received, 26 Eligibility Approved, 12 Pending Finalization, one not eligible

SRHR Program Progress To date

- Hospital Participation and Grant Awards
 - 102 potentially eligible hospitals
 - 30 have initiated applications for program participation.
 - 22 have submitted updated seismic compliance plans to fulfill application requirements.
 - 10 participating hospitals have submitted grant applications, 3 of which have grant approvals pending.
 - Remaining 72 facilities are under consideration for additional outreach to encourage engagement for technical assistance and potential future grants.

Outreach Efforts

June 13, 2022	Targeted E-mail Announcement “HCAI Launches Small and Rural Hospital Relief Program” Sent to 102 hospitals in California that meet at least one eligibility criterion for technical assistance.
June 18, 2022	Webinar: Presented the program to healthcare architects and administrators in the American Institute of Architects, Central Valley (AIACV) Chapter
July 6, 2022	Targeted E-mail Announcement Reminder “The Small and Rural Hospital Relief Program Provides Assistance in Reaching Seismic Compliance” Sent to 102 hospitals in California that meet at least one eligibility criterion for technical assistance (with the SRHRP information sent to all Small and Rural Hospitals Administrators).
December 14, 2022	Presentation: California Critical Access Hospital Network
April 10, 2023	Targeted E-mail Invitation* “Small and Rural Hospital Relief Program to Start Accepting Grant Applications on April 17” Sent to 102 hospitals in California that meet at least one eligibility criterion for technical assistance.
April 18, 2023	E-Mail Invitation Reminder* “Small and Rural Hospital Relief Program Now Accepting Grant Applications”
October 2, 2023	E-mail Webinar Announcement* “Small and Rural Hospital Relief Program (SRHRP)”
October 11, 2023	E-mail Webinar Reminder* “Small and Rural Hospital Relief Program (SRHRP)”
October 18, 2023	Webinar: Small and Rural Hospital Relief Program (SRHRP) by HCAI Hospital Building Safety Board
March 27, 2024	Webinar: Small and Rural Hospital Relief Program (SRHRP) to the Association of Medical Facility Professionals (AMFP)

January 13, 2022	HBSB SNSR Meeting <i>Presentation-Discussion-Public Input</i> Introduce SB 395 as Statute and HCAI Implementation Plan
April 28, 2022	HBSB Meeting <i>Overview-Approval-Public Input</i> HBSB-SNSR January 13, 2022 Meeting Report and OSHPD Program Update
June 22, 2022	HBSB SNSR Meeting <i>Presentation-Discussion-Public Input</i> Policy Intent Notice (PIN) 71, Compliance Plan Requirements for Participants in the Small and Rural Hospital Relief Program
August 11, 2022	HBSB Meeting <i>Overview-Approval-Public Input</i> HBSB-SNSR June 22, 2022 Meeting Report and OSHPD Program Update
November 7, 2022	HBSB SNSR Meeting <i>Presentation-Discussion-Public Input</i> Title 24, California Code of Regulations, California Building Standards Code, 2022 Intervening Code Cycle Change Proposals, for Small and Rural Hospital Relief Program
December 7-8, 2022	HBSB Meeting <i>Overview-Approval-Public Input</i> OSHPD Program Update including the Seismic Compliance Unit and Small and Rural Hospital Relief Program
April 11, 2023	HBSB SNSR Meeting <i>Presentation-Discussion-Public Input</i> OSHPD Seismic Compliance Unit Update
April 20, 2023	HBSB Meeting <i>Overview-Approval-Public Input</i> HBSB-SNSR November 7, 2022 Meeting Report and OSHPD Program Update
August 17, 2023	HBSB Meeting <i>Overview-Approval-Public Input</i> HBSB-SNSR April 11, 2023 Meeting Report and OSHPD Program Update

Small and Rural Hospital Relief Program

- Re-contacting 30+ applicants
- Meetings w/ 12 facilities – Preparing them to SPC 4D funding application.
 - Have potential to reach to a significant compliance w/ SPC 4D in 2 years.
- Potentially few million \$\$ each for SPC 4D program (not fully funding everything)
- The goal is to reach 15-20 facilities by the end of the year and commit an estimated ~30-50 million by early February.
- Continue to bring others in the program...

Preapprovals

Preapproval Programs

HCAI Office of Statewide Hospital Planning and Development (OSHPD) has five distinct preapproval programs that operate under the Structural Support Unit (SSU) and Inspection Services Unit (ISU).

OSHPD Preapproved Agency (OPAA)

Preapproval of Agencies that provide Structural Tests and Special Inspection services used in California healthcare facility construction.

[LEARN MORE](#)

[VIEW PIN 58](#)

OSHPD Preapproved Details (OPD)

Preapproved standard architectural and engineering details developed by HCAI/OSHPD for use in California healthcare facility construction.

[LEARN MORE](#)

[VIEW PIN 51](#)

OSHPD Preapproval of Manufacturer's Certification (OPM)

Preapproval of seismic design of supports and attachments for nonstructural components used in California healthcare facility construction.

[LEARN MORE](#)

[VIEW PIN 62](#)

OSHPD Special Seismic Certification Preapproval (OSP)

Preapproval of special seismic certification of non-structural components used in California healthcare facility construction.

[LEARN MORE](#)

[VIEW PIN 55](#)

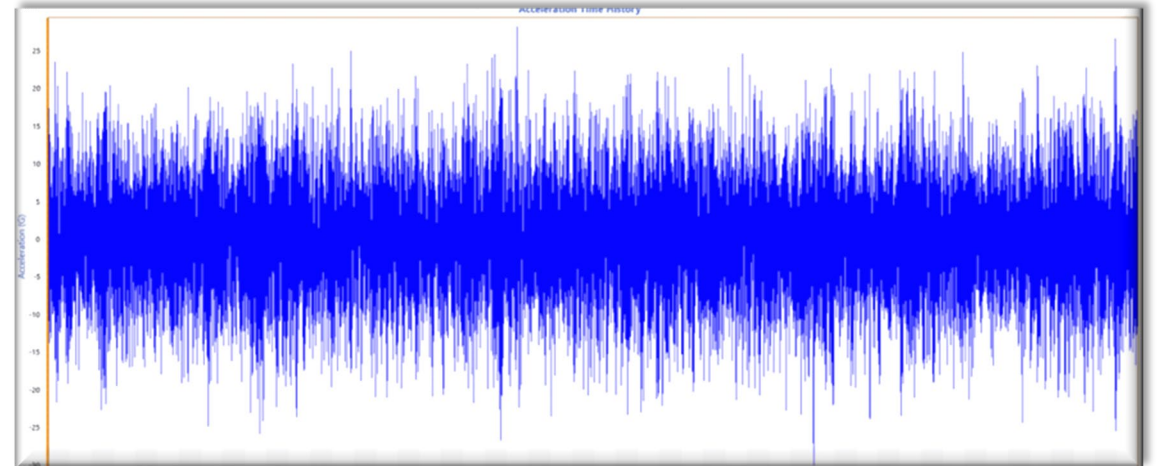
OSHPD Preapproved Prefabricated Components and Systems (PCS)

Preapproval of prefabricated components and systems used in California healthcare facility construction.

[LEARN MORE](#)

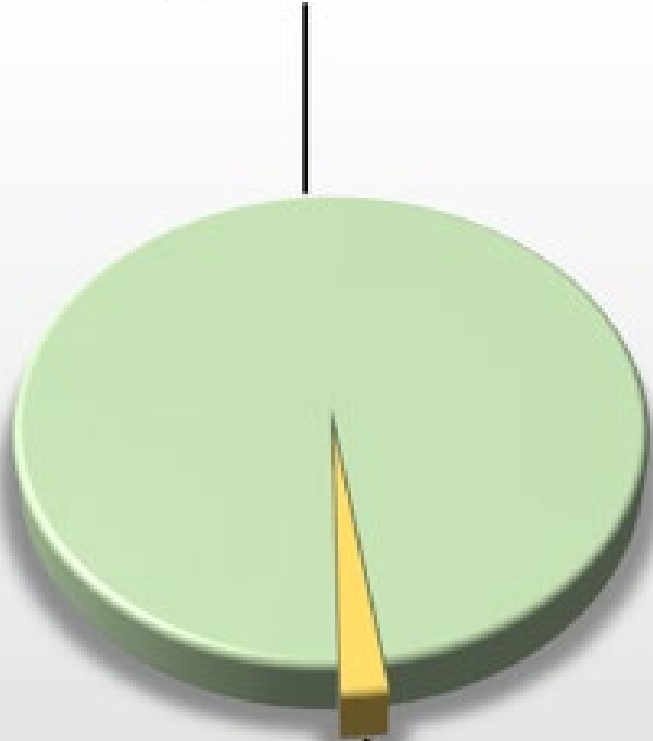
OSP – Special Seismic Certification Preapproval

Preapproved
Mechanical/Electrical Equipment
by Shake Table Testing

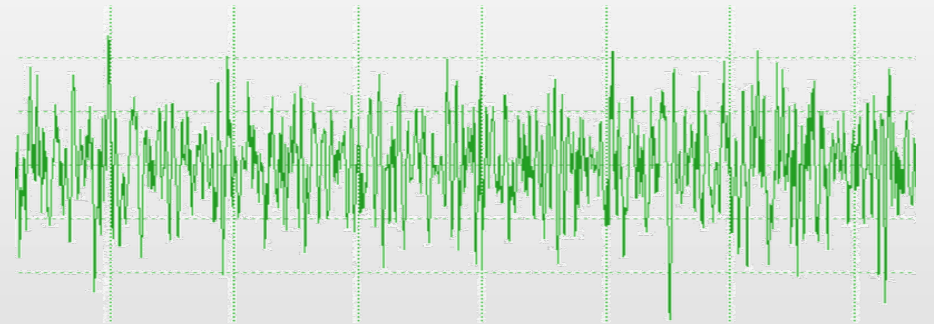


Current OSP Status

Total OSP's, 800

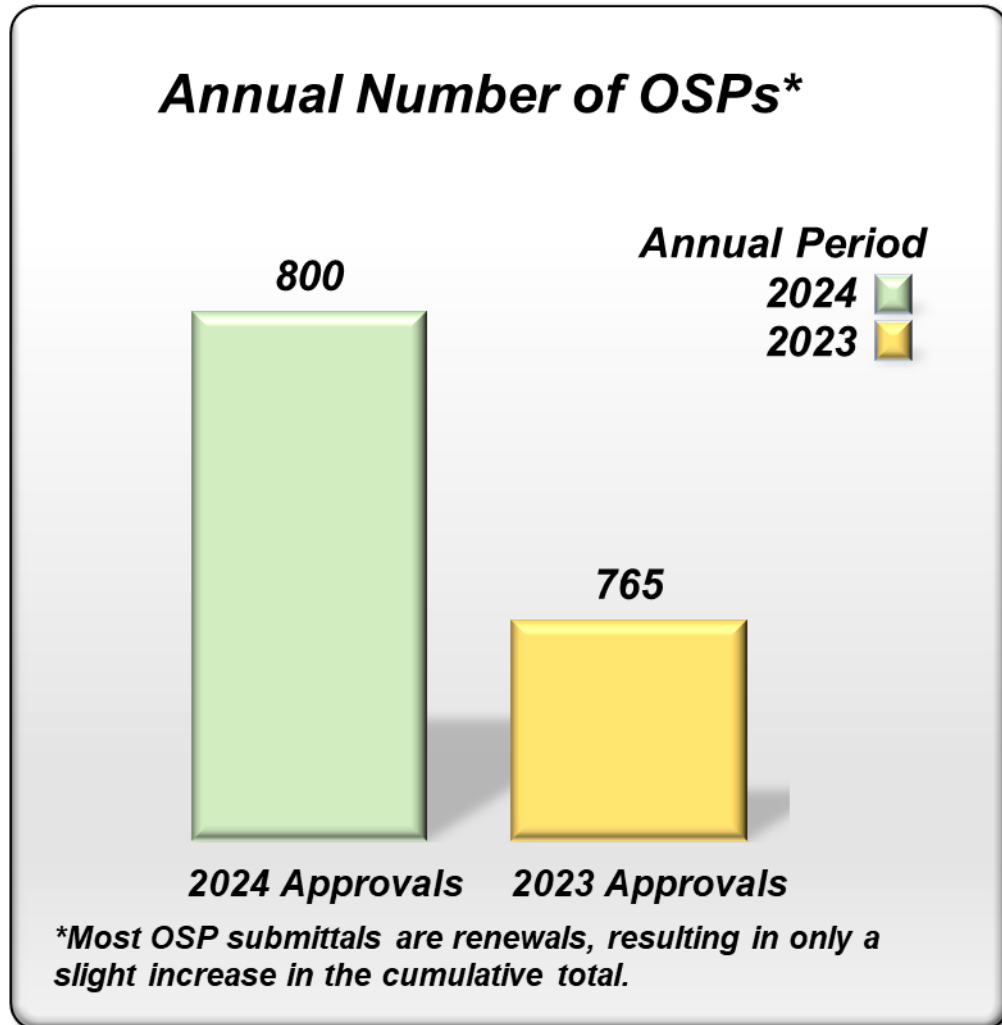


**Current
Submittals, 18**



**Most OSP submittals are renewals, resulting in only a slight increase in the cumulative total.*

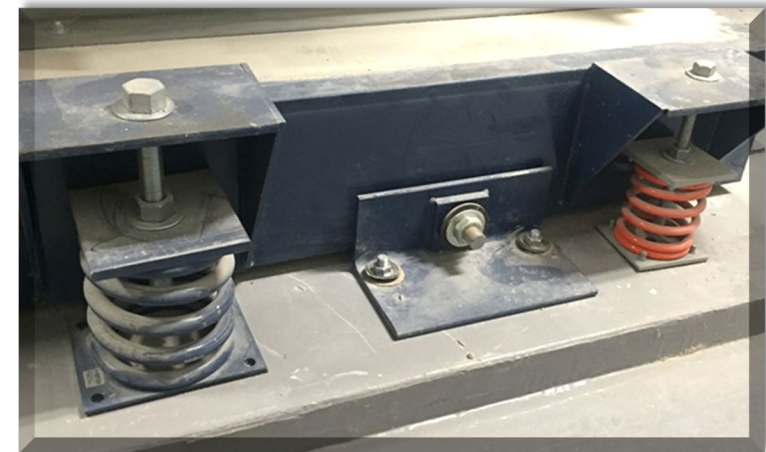
Annual Increase in OSPs Available to Industry



Annual Increase in OSPs

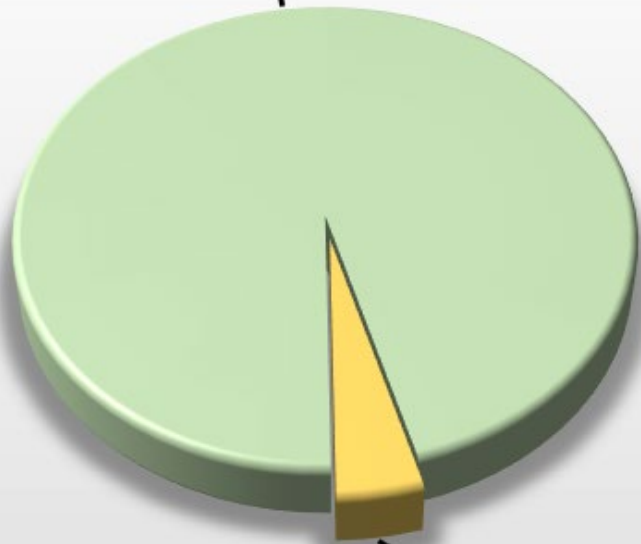
OPM – Manufacturer's Certification Preapproval

Preapproved
Nonstructural Component
Supports and Attachments



Current OPM Status

Total OPM's, 740



**Current
Submittals, 32**



OPM PIN 62

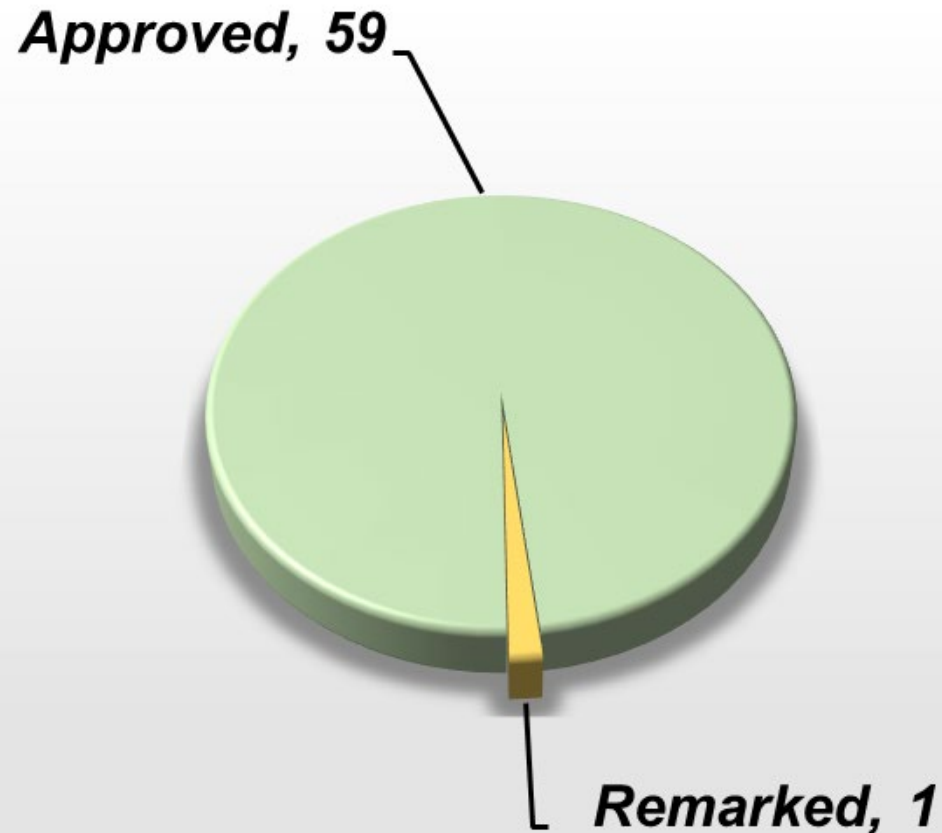
PIN 62 now posted on HCAI website



PIN updated to address 2022 CBC requirements.
For distribution systems, the CD layout drawings shall incorporate the applicable OPM distribution details, in lieu of a general reference to the OPM only.



OPAA Preapproved Agency Program Status



Adaptations to HCAI Preapprovals for ASCE 7-22 Chapter 13 NonStructural Components

Existing Preapprovals

OPM/OSP/OPD are valid for use on any project (including 2025 CBC).

Existing shake table tests are valid on any project (including 2025 CBC).

Renewal Preapprovals to the 2025 CBC

OPM/OSP requires minor updates of drawings to current Code & updated Applications

New Preapprovals to the 2025 CBC

OPM/OSP requires minor updates of calculations and drawings to current Code.

Adaptation of ASCE 7-22 Non-Structural Code Provisions to HCAI Preapprovals



*ASCE 7-22 Non-Structural Code Provision
Changes to HCAI Preapprovals Webinar early 2025*

Hospital Seismic Instrumentation Program

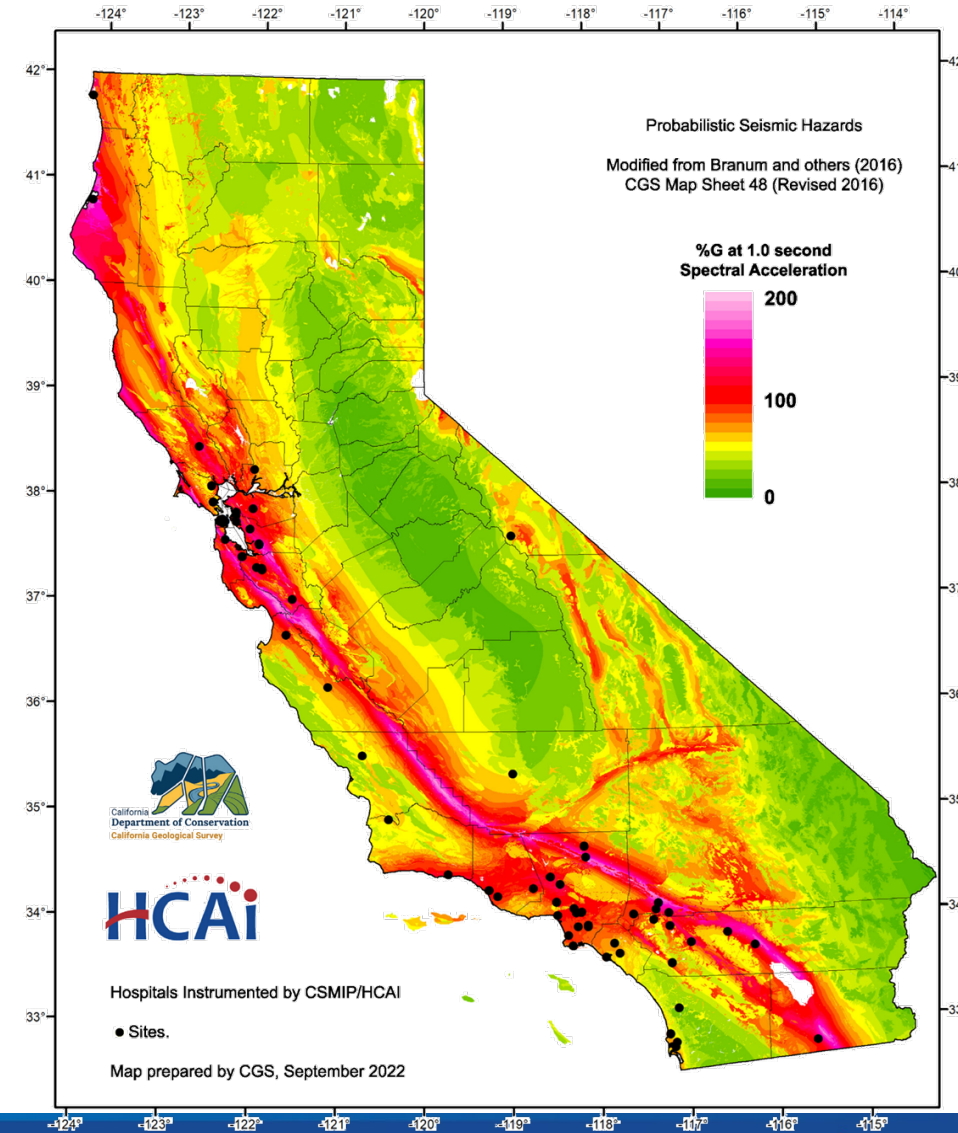
Hospital buildings are often situated near active faults and are located in areas with high or very high seismic risk.

HCAI collaborated with CGS/CSMIP to install instruments in 85 hospitals.

Hospitals Instrumented by CSMIP/HCAI

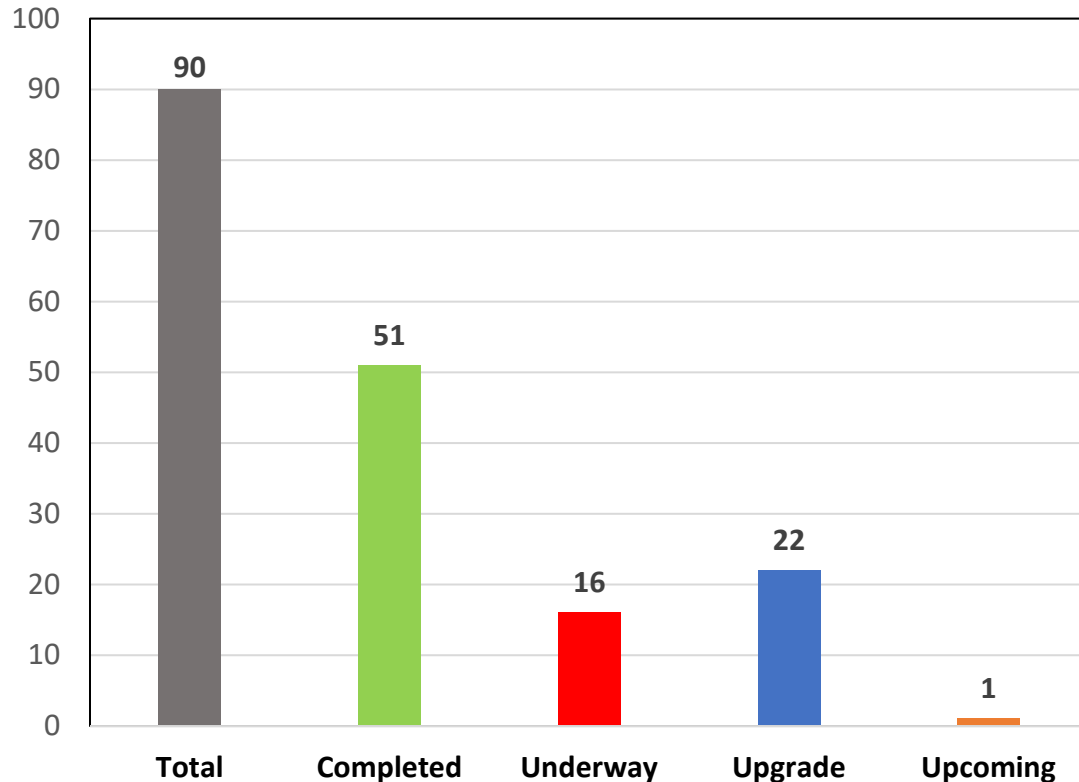
2% Chance of Being Exceeded in 50 years

Long-Period Shaking (1.0 second)

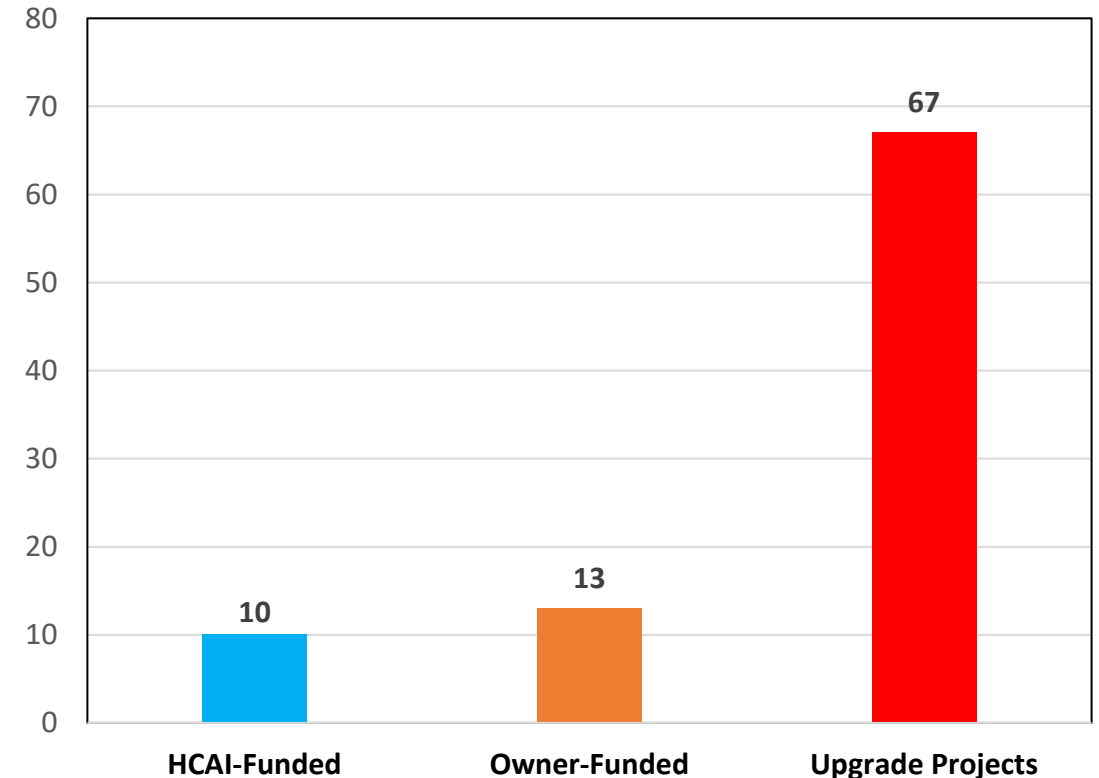


Seismic Instrumentation Projects

Instrumentation Projects (FY20-30)



Instrumentation Projects (FY20-30)



Most of the instrument projects were financed by the hospital owners and upgrades were founded by CSMIP through BCP project

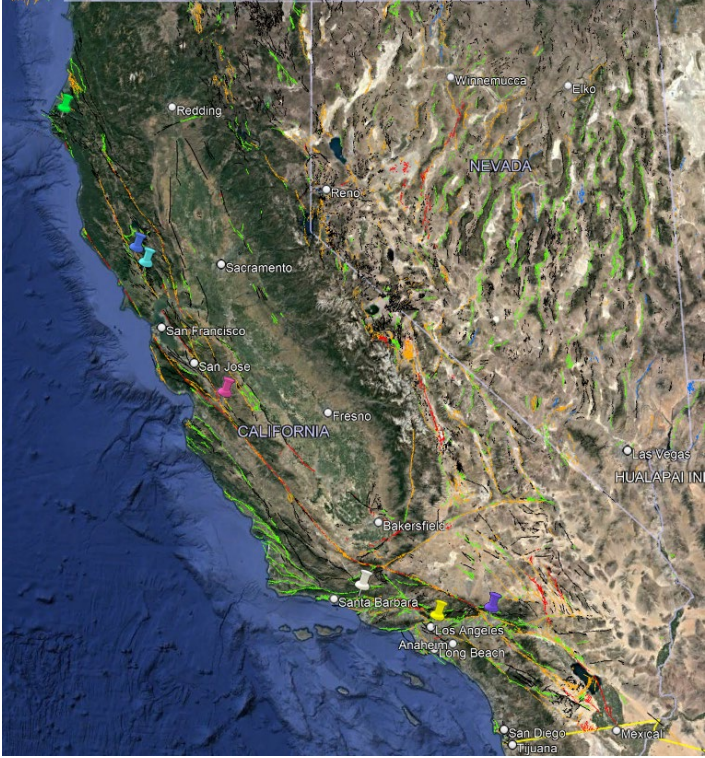
HBSB Instrumentation Committee Recommended Single-story Wood Frame Hospital Buildings



Selection Criteria

- Plan Irregularities, Wings
- Flexible Diaphragm
- Shear Walls
- Construction Year
- SPC Category
- Rocking
- Seismicity

Providence Redwood Memorial Hospital	Fortuna	BLD-00529	1955
Healdsburg Hospital	Healdsburg	BLD-00919	1972
Providence Santa Rosa Memorial Hospital	Santa Rosa	BLD-01529	1961
Hazel Hawkins Memorial Hospital	Hollister	BLD-01458	1960
Community Memorial Hospital - Ojai	Ojai	BLD-00606	1960
Monterey Park Hospital	Monterey Park	BLD-00946	1971
Community Hospital of San Bernardino	San Bernardino	BLD-01851	1969



Predominantly single-story facilities
 Built era varies from 1902 to 2023

Other Activities

- Participation in national codes and standards committees
 - BSSC
 - 2026 NEHRP (PUC)
 - IT-1, IT-4 & IT-6
 - Functional Recovery Task Committee (FRTC)
 - ASCE 7-28
 - Main Committee
 - Seismic subcommittee
 - Future conditions subcommittee
- Research and Development
- Presentations to Stakeholders



What's Coming?

- **PIN 77 - Steel Quality Assurance (QA) and Quality Control (QC)** to substitute existing Table 1705A.2 which is being repealed
- **Training/webinars on the new A13 Guide for NPC** upgrade construction process for existing ceilings and above ceiling utilities
- **Potential Code amendments to ASCE 7** based on research work by HCAi staff



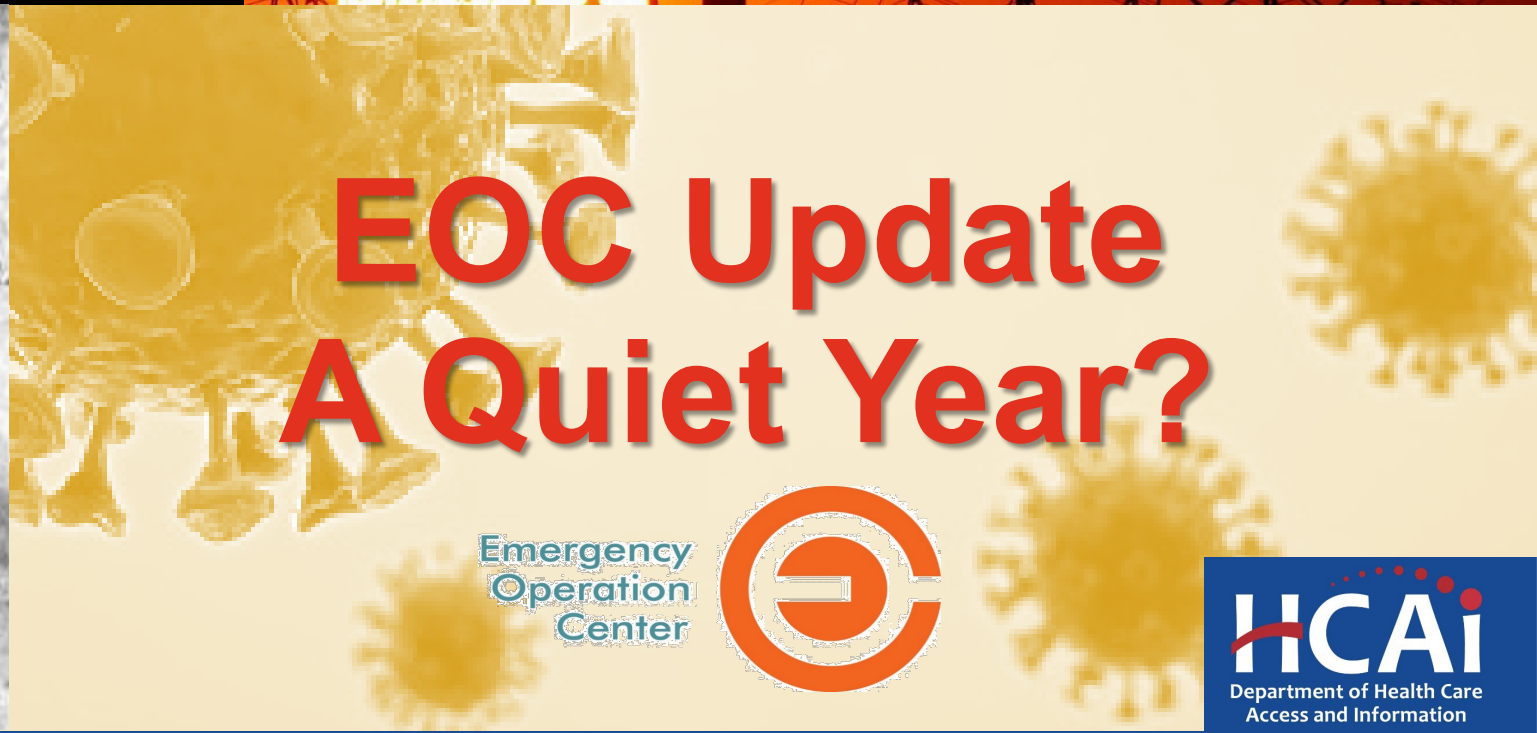
Wildfires



PSPS

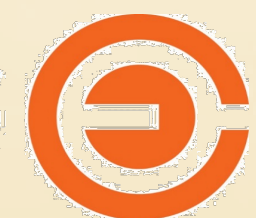


Earthquakes



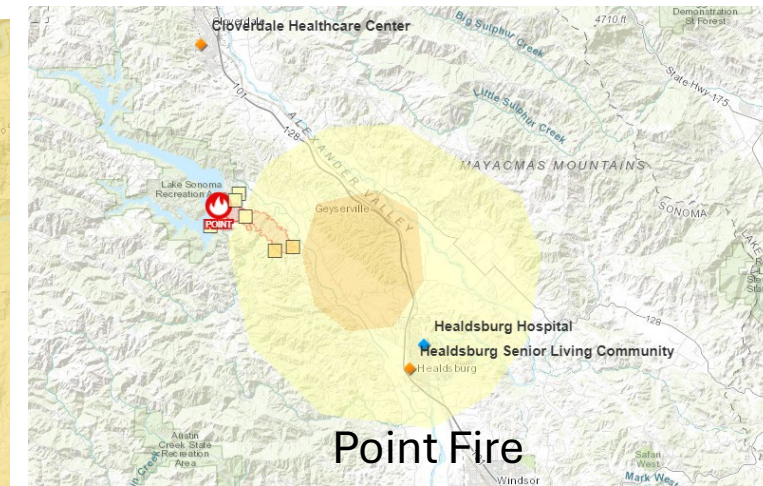
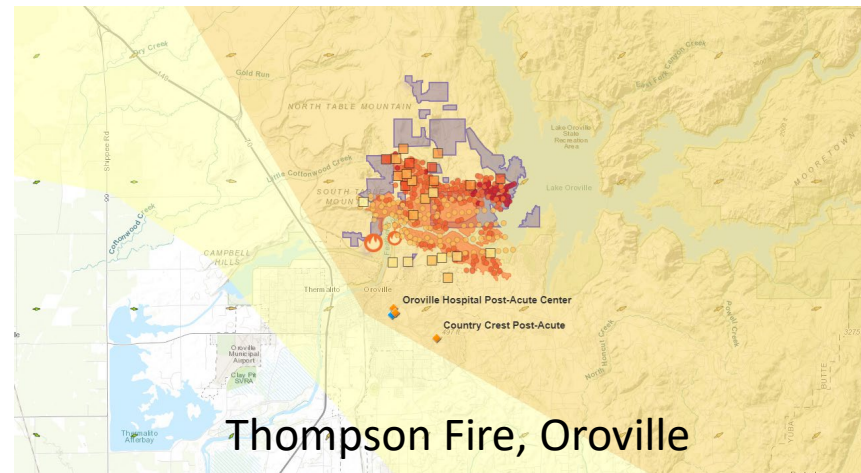
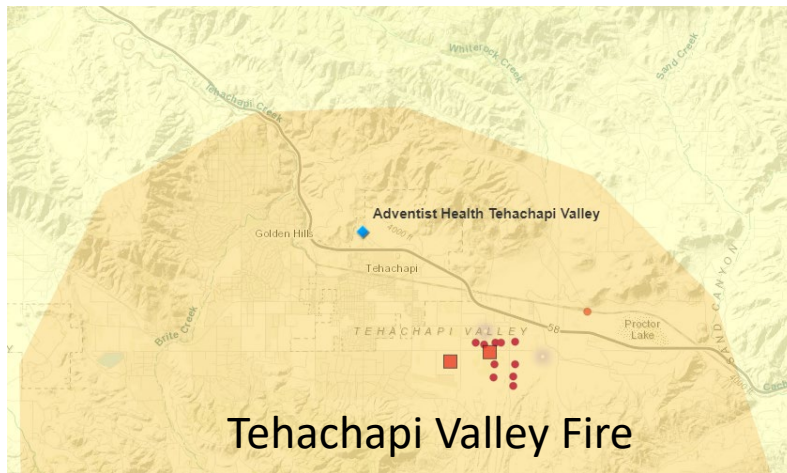
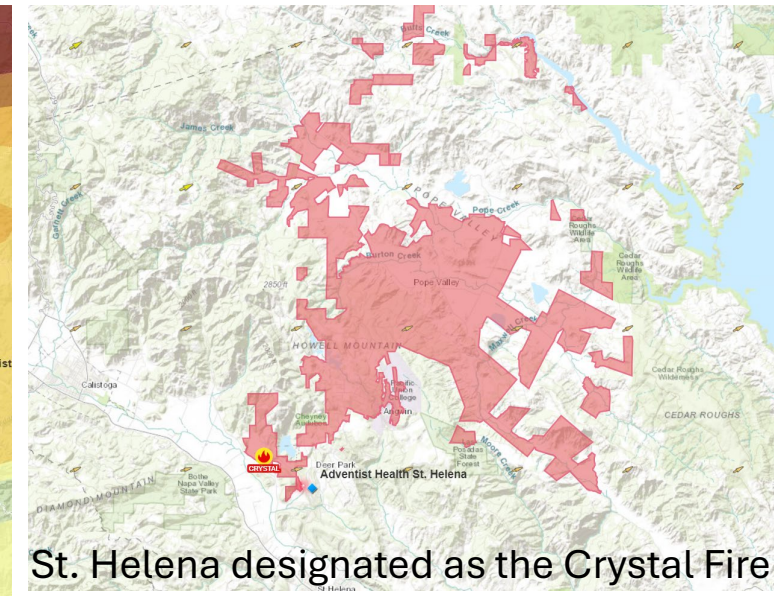
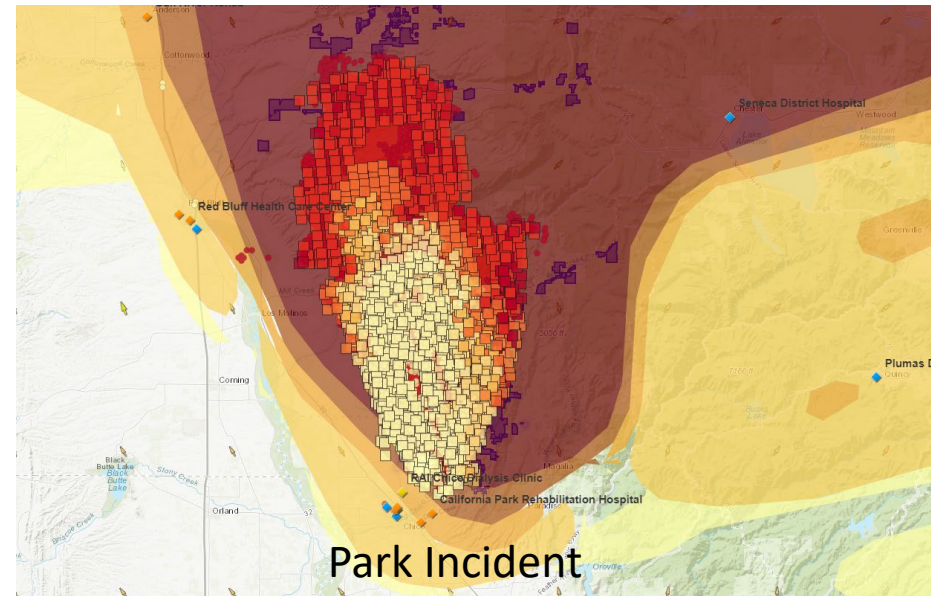
EOC Update A Quiet Year?

Emergency
Operation
Center



Wild-fires

- Crystal Fire, St. Helena Fire
- Point Fire
- Thompson Fire, Oroville
- Tehachapi Valley Fire
- Park Fire
- . . .



Spotter Camera Network

UC San Diego Search cameras

All Cameras Active Cameras

Menu Tutorial Video Login

Map Satellite Search address or coordinates

Icons

- View Access
- View Access (AWF)
- Move Access
- Stationary Camera
- Stationary Camera (No Heading)
- Offline < 24hrs
- Offline > 24hrs
- Start Location
- Current Location

Auto Targets

- < 5 min
- < 15 min
- < 1 hr
- < 2 hr
- < 3 hr
- > 6 hr

UC San Diego ALERTCalifornia

IMAGE COURTESY OF PG&E

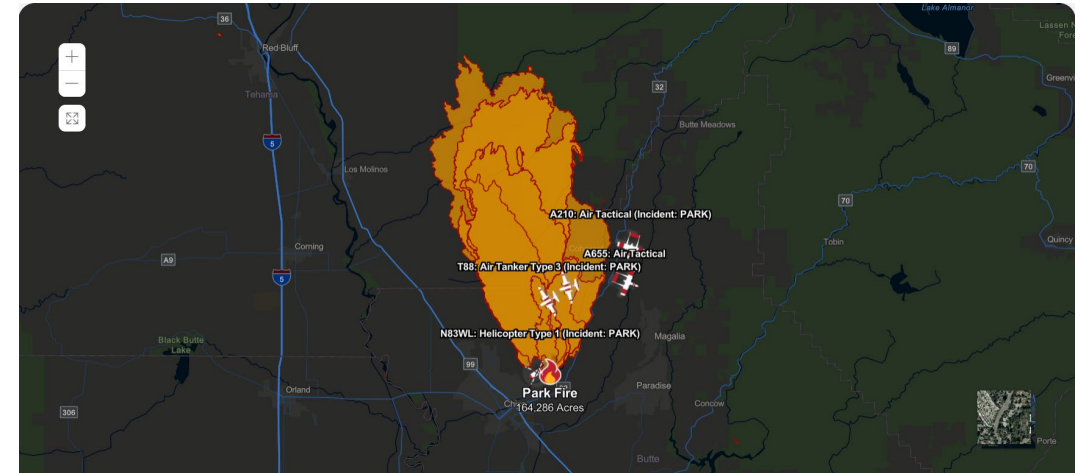
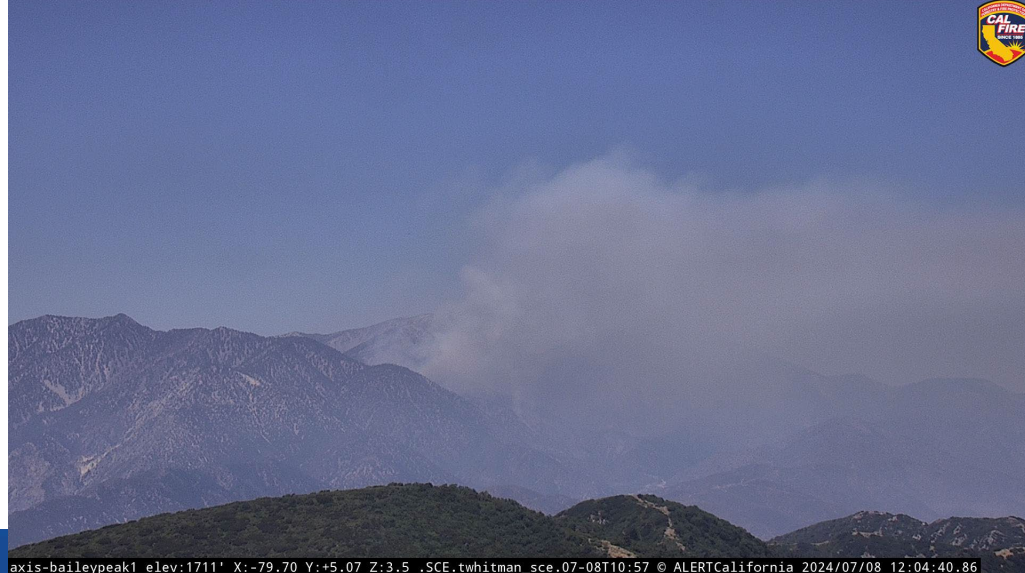
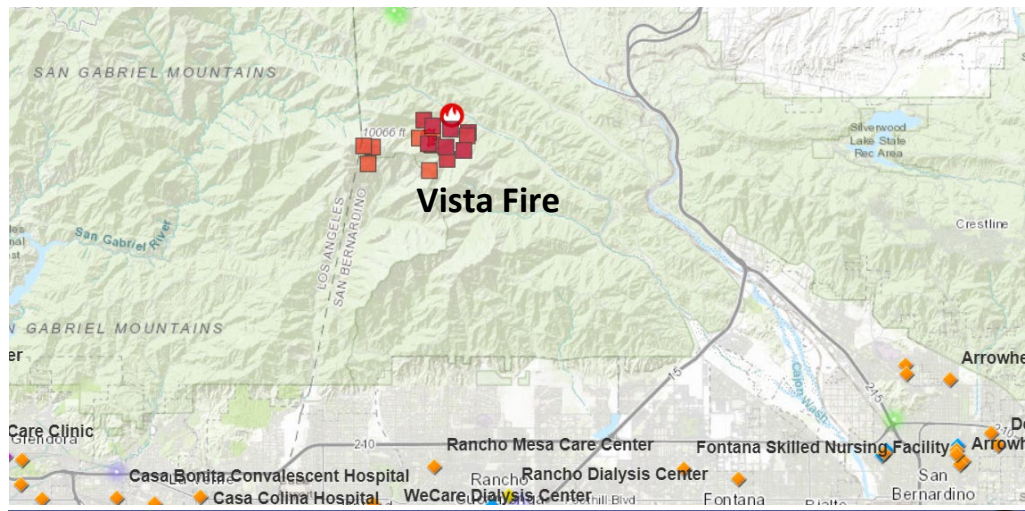
Rattlesnake Peak 2 Lesnakepeak2 elev:2165' X:+78.84 Y:+0.63 Z:1.0 © ALERTCalifornia 2024/08/12 17:34:41.51 Last Moved: 3d 19h 51m

Tuscan Butte 2 Last Moved: 33m

Platte Mtn 1 Last Moved: 2h 10m

Pine Creek Last Moved: 2h 28m

Live View Cameras



UC San Diego

IMAGE COURTESY OF PG&E

HCAI Repopulation Visits



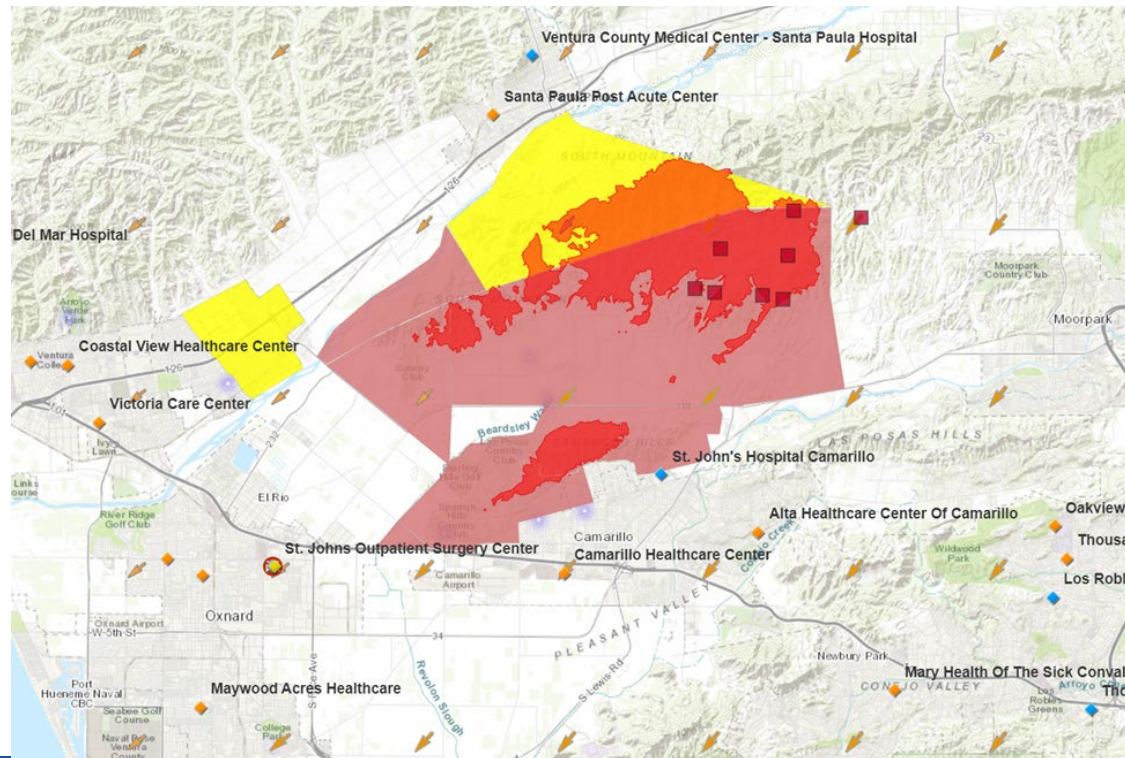
27779 - Country Crest Post-Acute Cleared for repopulation by HCAI field staff and CDPH 7/5/2024



20015 - Feather River Care Center Cleared for repopulation by HCAI field staff and CDPH 7/5/2024

Mountain Fire – Evacuation Zone Layer

Evacuation Zones are managed by counties (as they should be) and until now there was no centralized location to show evacuation zones for the entire state. On urging of concerned agencies including HCAI, now counties report evacuation zones to CALOES; HCAI can consume information and plot on our maps

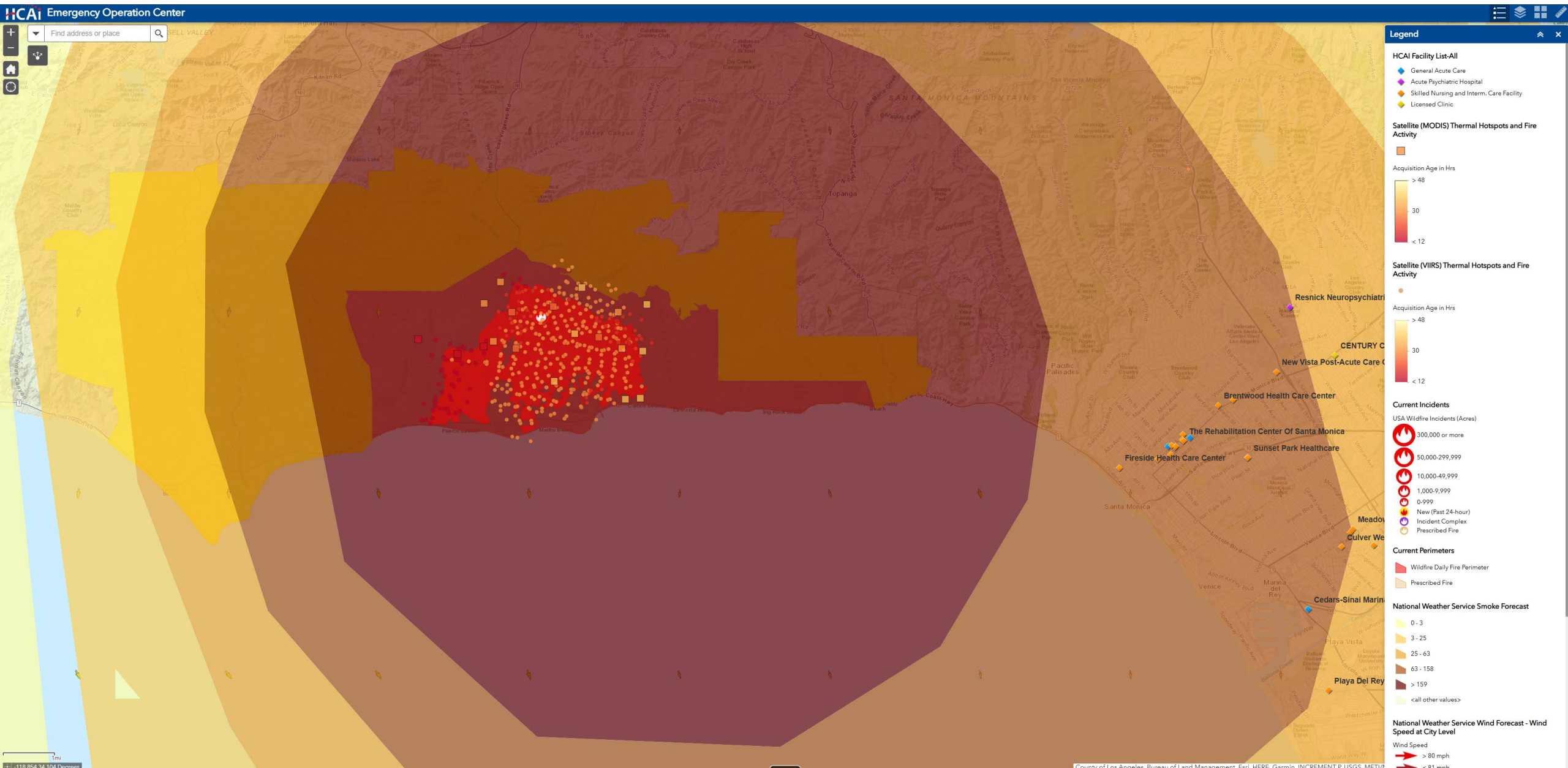


California Active Evacuation Zones

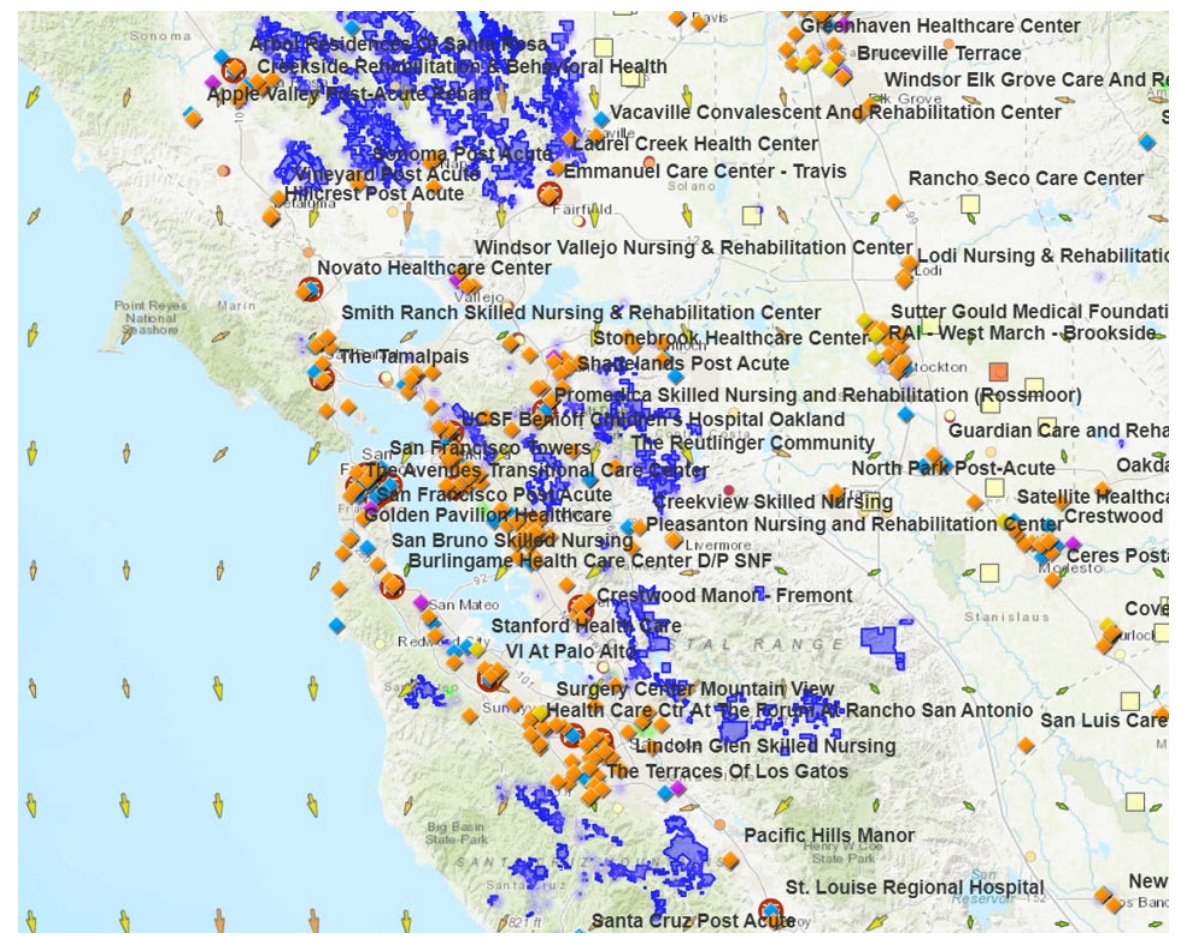
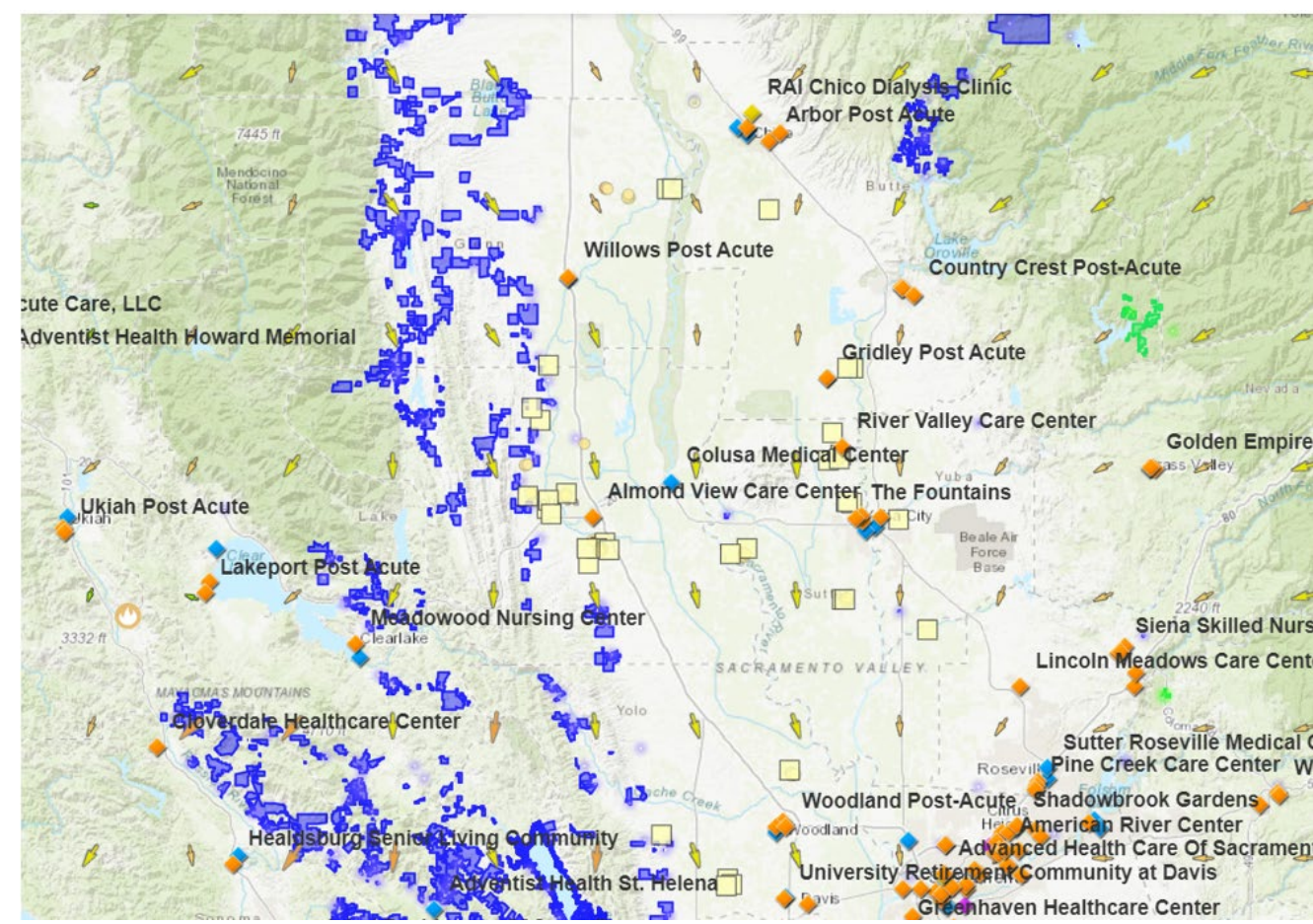
-  Warning
-  Evacuation Order
-  Shelter In Place
-  Clear to Repopulate
-  Advisory



Malibu –Franklin Incident (Ongoing as of 12/11/2024)

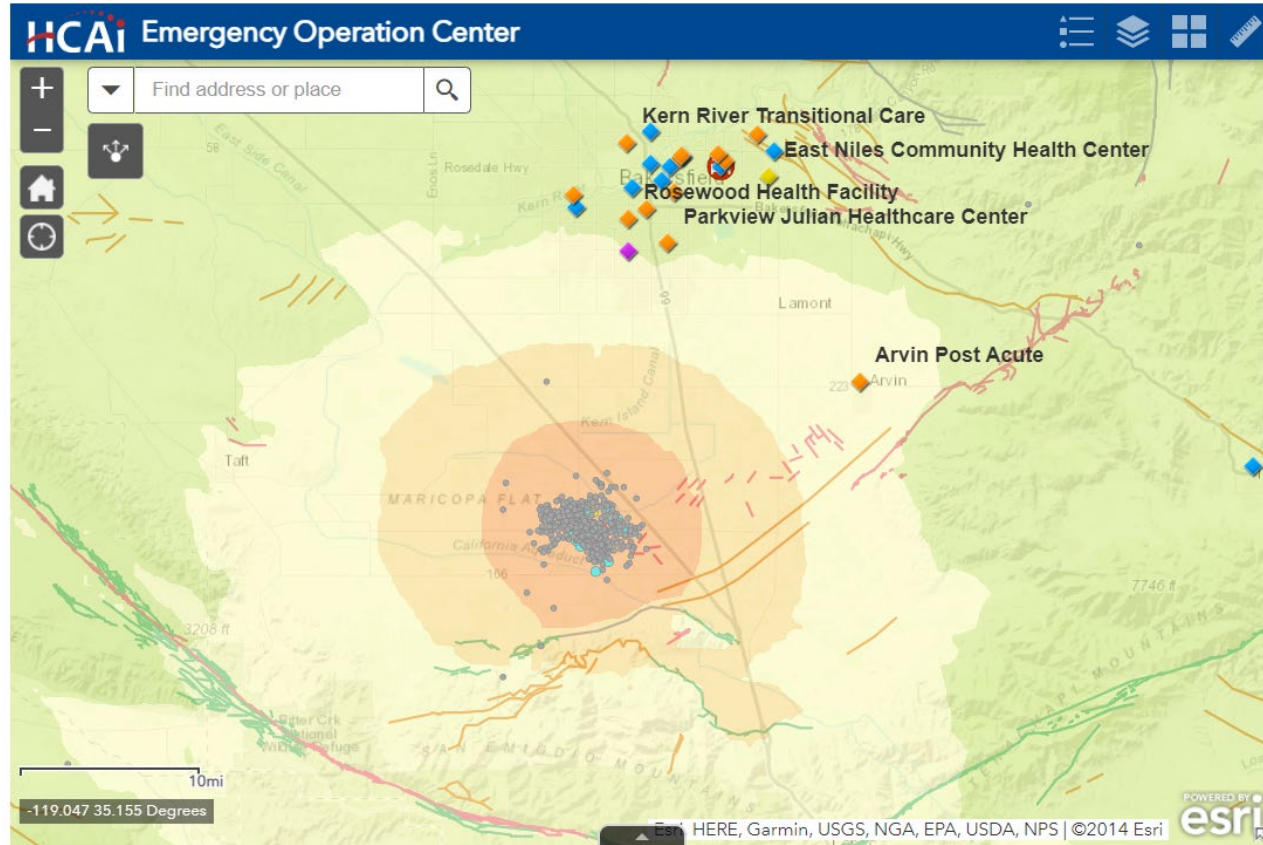


Public Safety Power Shutoffs 11/6/2024



M5.2 Earthquake Near Bakersfield

August 6, 2024



HCAI EOC Maps Full Screen

OSHPD Facility List

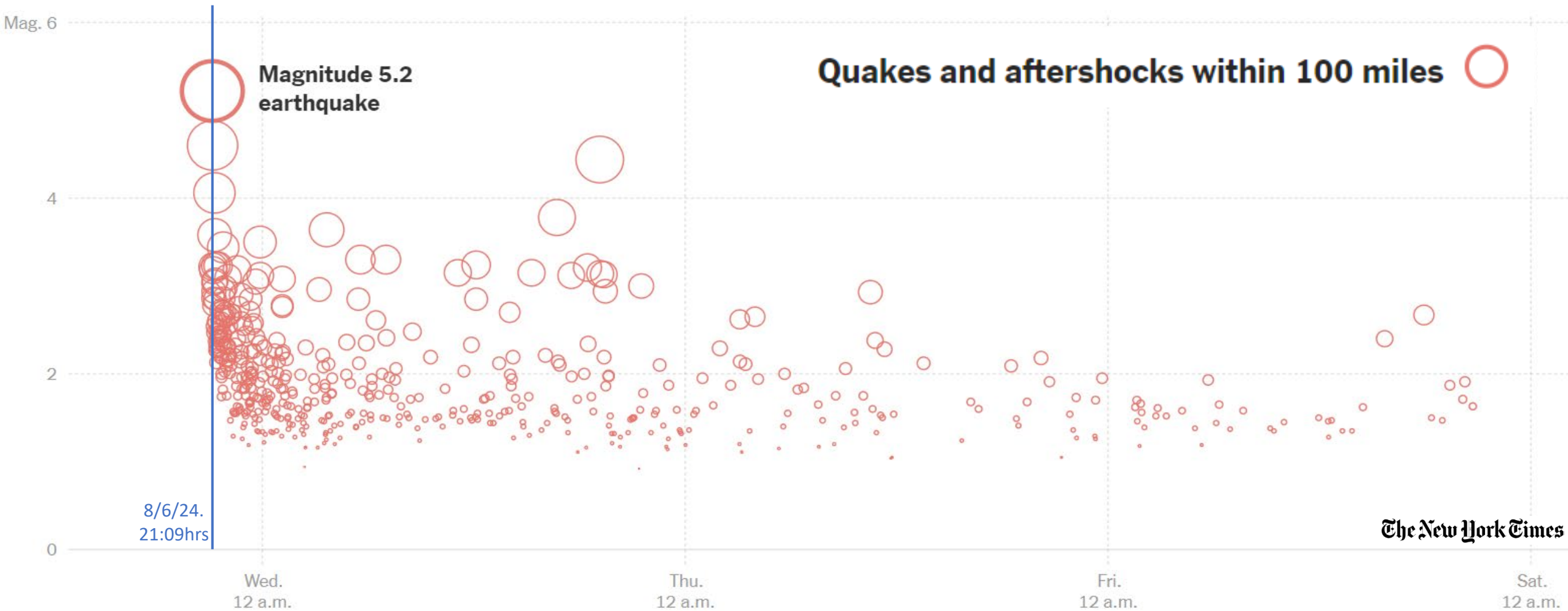
- General Acute Care
- Acute Psychiatric Hospital
- Skilled Nursing and Intern. Care Facility
- Licensed Clinic

OSHPD Facility List

- General Acute Care
- Acute Psychiatric Hospital
- Skilled Nursing and Intern. Care Facility
- Licensed Clinic

- USA Current Wildfires - Current_Perimeters**
- USA Current Wildfires - Current_Incidents**
- Satellite (MODIS) Thermal Hotspots and Fire Activity**
- Satellite (MIRS) Thermal Hotspots and Fire Activity**
- National Weather Service Smoke Forecast**
- California Public Utilities Commission Fire Threat Map Tier 2 (Elevated Risk)**
- California Public Utilities Commission Fire Threat Map Tier 3 (Extreme Risk)**
- Power Outage Areas - Source CalOES**
- Power Outage Incidents - Source CalOES**
- Power Outages by County - Source CalOES**
- Recent Earthquakes - Events by Magnitude**
- Recent Earthquakes - Shake Intensity**
- Earthquake Faults**

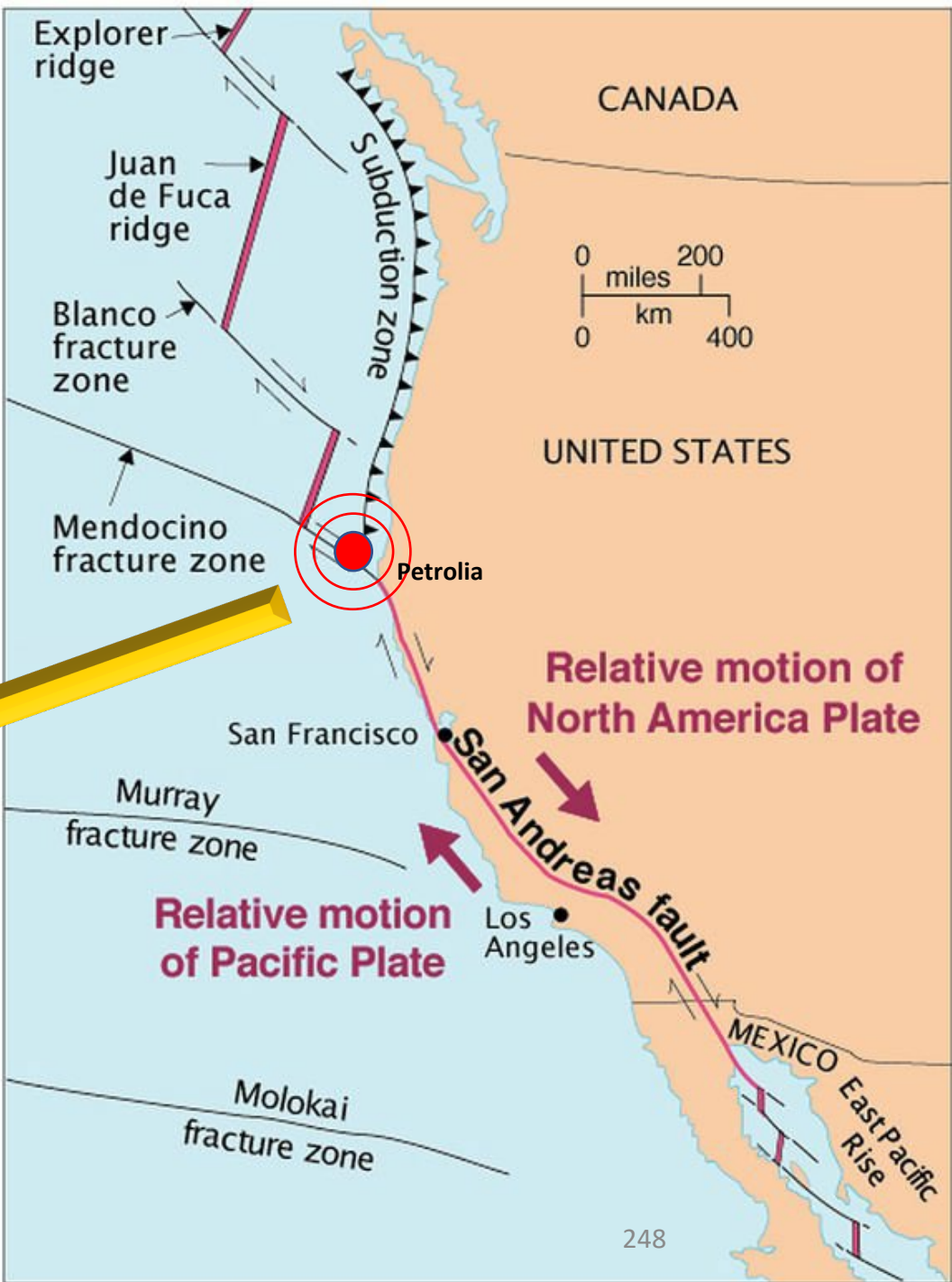
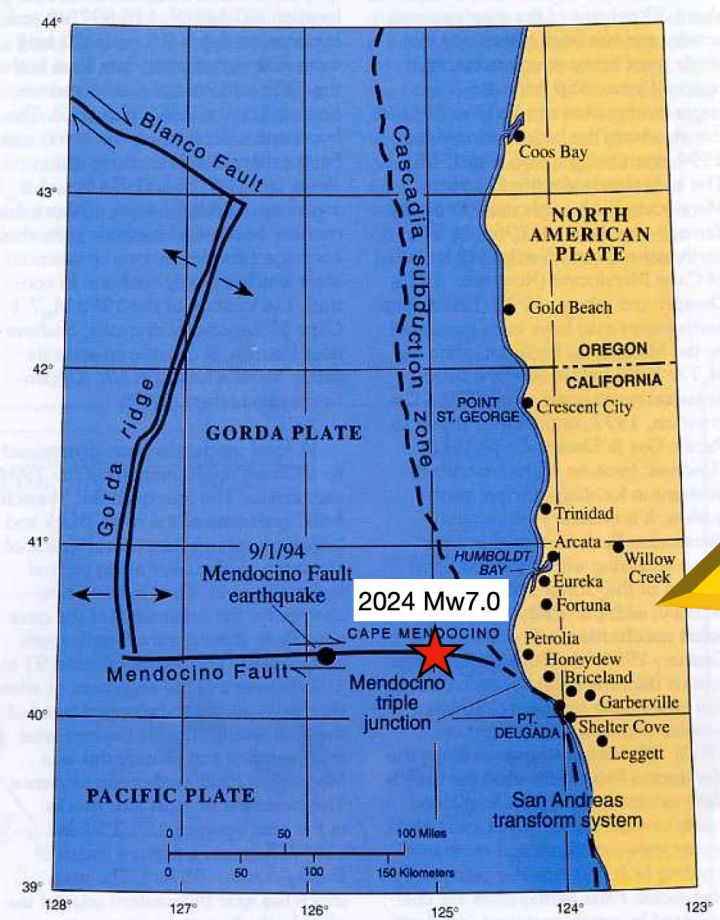
M5.2 Earthquake Near Bakersfield



2024 Mw7 Cape Mendocino EQ.

12/5/24

The Mendocino Triple Junction



2024 M_w7 Cape Mendocino EQ.

12/5/24

OSHPD Facility List

- General Acute Care
- Acute Psychiatric Hospital
- Skilled Nursing and Intern. Care Facility
- Licensed Clinic

OSHPD Facility List

- General Acute Care
- Acute Psychiatric Hospital
- Skilled Nursing and Intern. Care Facility
- Licensed Clinic

USA Current Wildfires - Current_Perimeters

Classify by Acres

- 1,000,000 Acres or more
- 500,000 - 999,999
- 100,000 - 499,999
- 50,000 - 99,999
- 10,000 - 49,999
- 5,000 - 9,999
- 1,000 - 4,999
- 300 - 999
- 100 - 299
- 10 - 99
- 0.26 - 9
- < 25 Acres

California Public Utilities Commission Fire Threat

Map Tier 2 (Elevated Risk)

Map Tier 3 (Extreme Risk)

Power Outage Areas - Source CalOES

Power Outage Incidents - Source CalOES

Power Outages by County - Source CalOES

Custom

- More Than 5,000
- 2,001 - 5,000 Customers
- 1,001 - 2,000 Customers
- 0 - 1,000 Customers

Recent Earthquakes - Events by Magnitude

Magnitude

- Mag 7.5 or >
- Mag 6 to 7.5
- Mag 4.5 to 6
- Mag 3 to 4.5
- Mag < 3

Recent Earthquakes - Shake Intensity

Intensity Value

- X+ (Extreme)
- IX (Violent)
- VIII (Severe)
- VII (Very Strong)
- VI (Strong)
- V (Moderate)
- IV (Light)
- III - II (Weak)
- I (Not Felt)

National Weather Service Smoke Forecast

- 0 - 3
- 3 - 25
- 25 - 63
- 63 - 158
- > 159
- others

Satellite (MODIS) Thermal Hotspots and Fire Activity

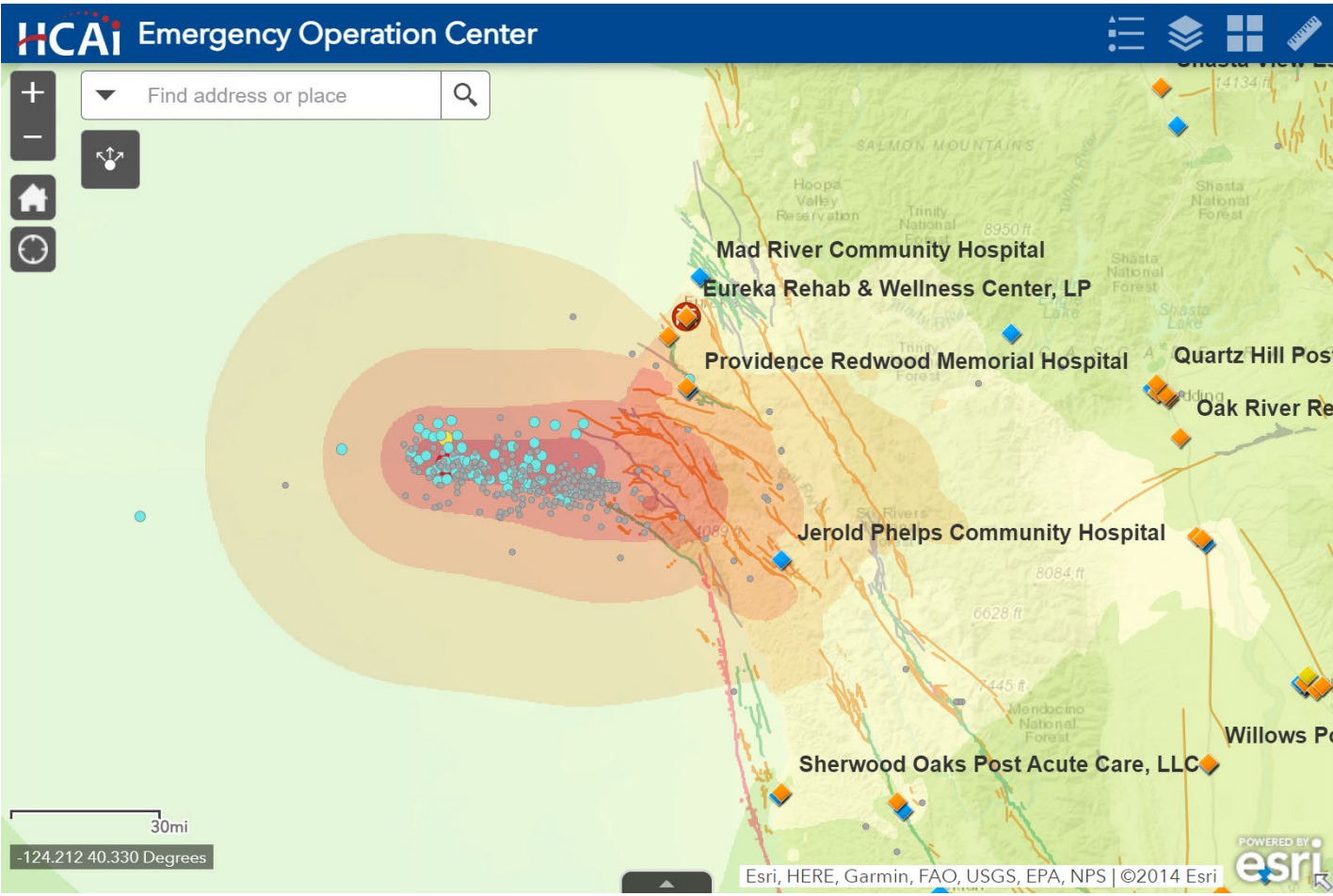
Acquisition Age in Hrs

- > 48
- 30
- < 12

Satellite (VIIRS) Thermal Hotspots and Fire Activity

Acquisition Age in Hrs

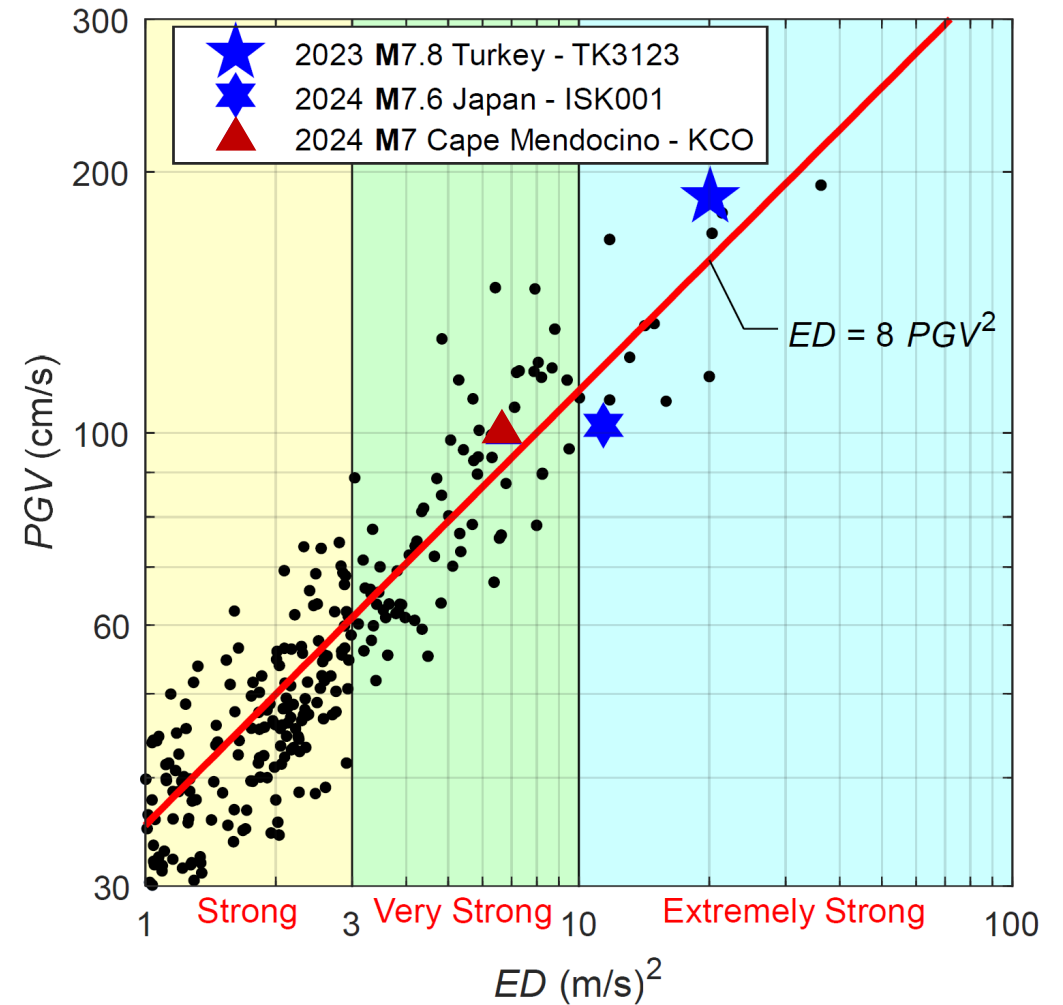
- > 48
- 30
- < 12



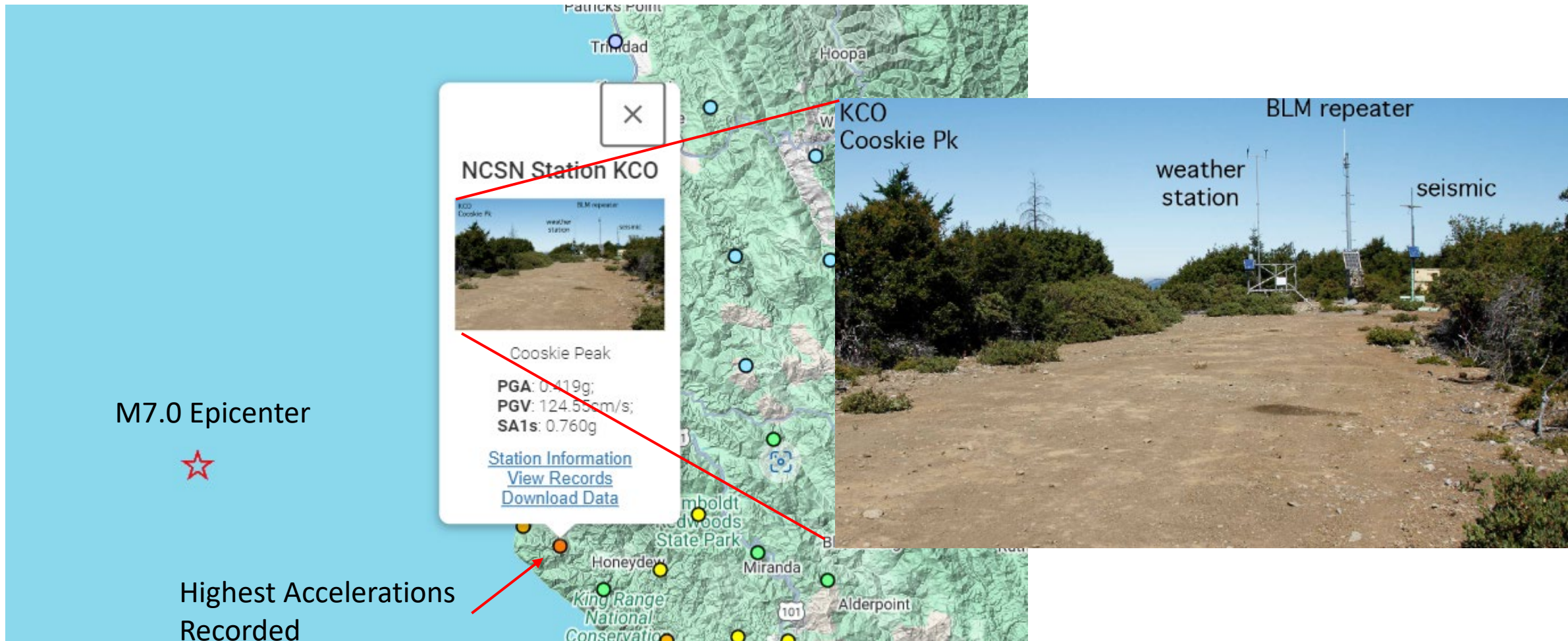
<https://hcai.ca.gov/facilities/building-safety/seismic-compliance-and-safety/emergency-response-operations/>

2024 M7 Cape Mendocino EQ.

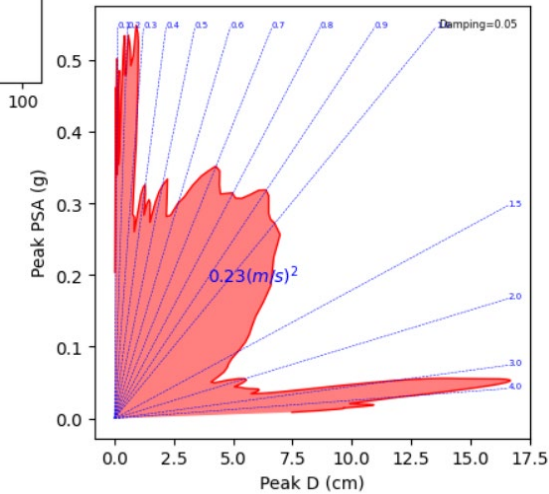
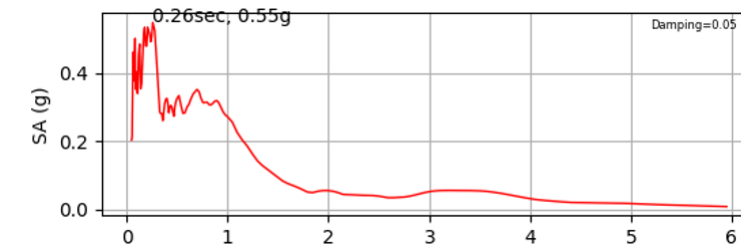
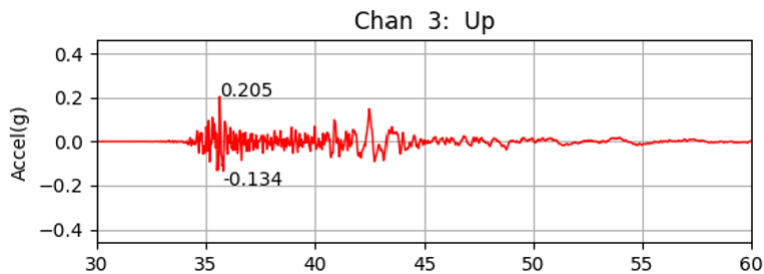
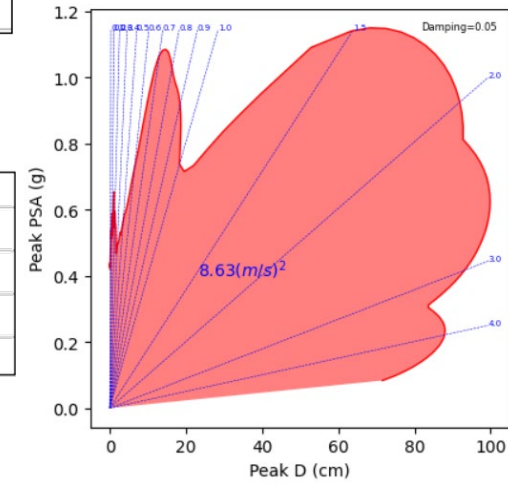
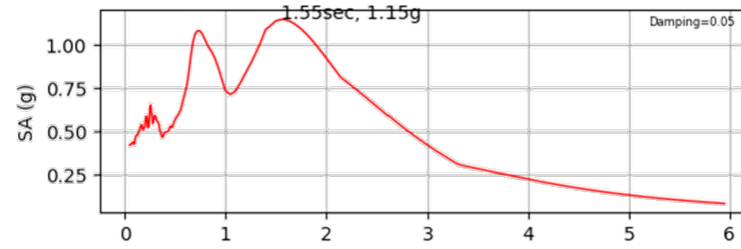
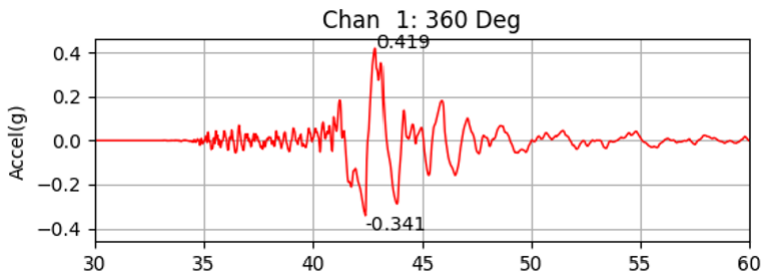
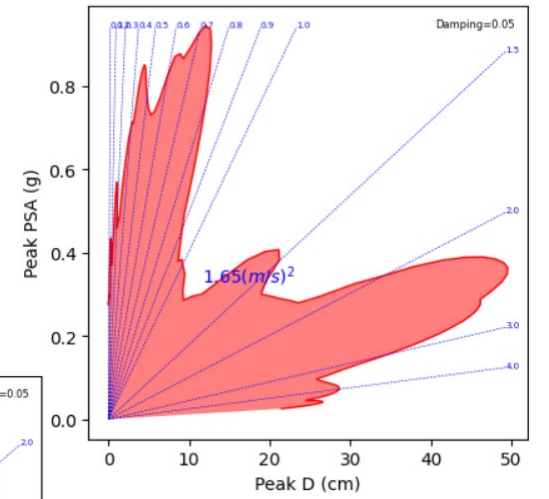
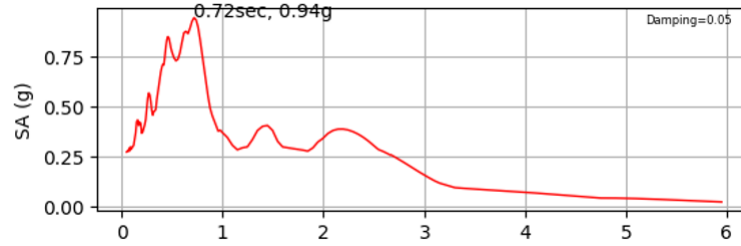
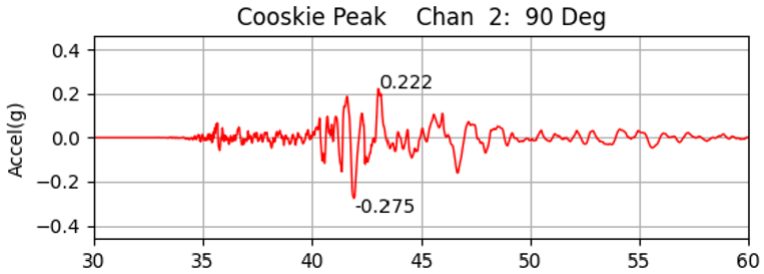
Comparison w/ Other
Strong Ground
Motions



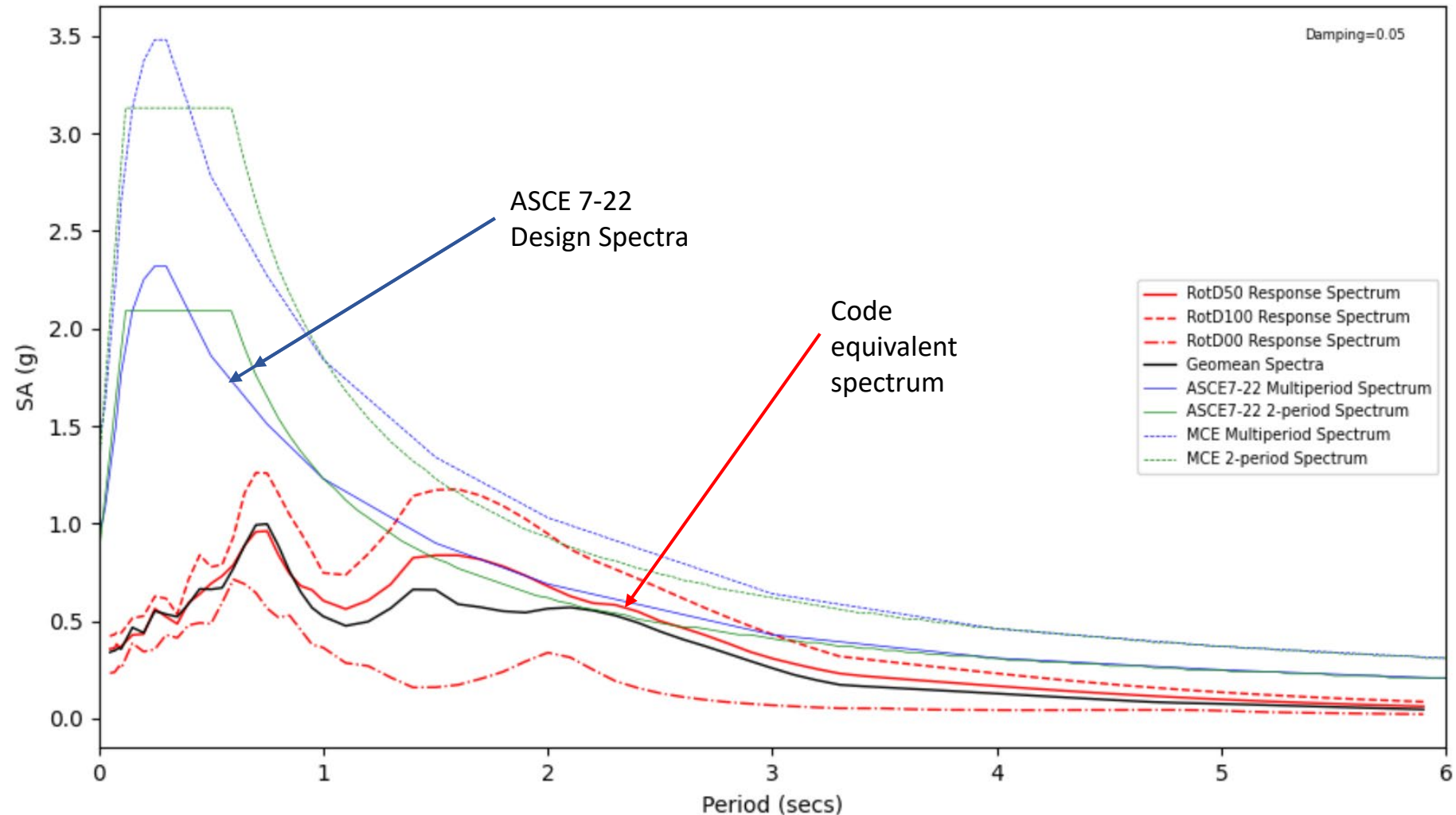
Ground Motions from M7 Cape Mendocino EQ.



Cooskie Peak

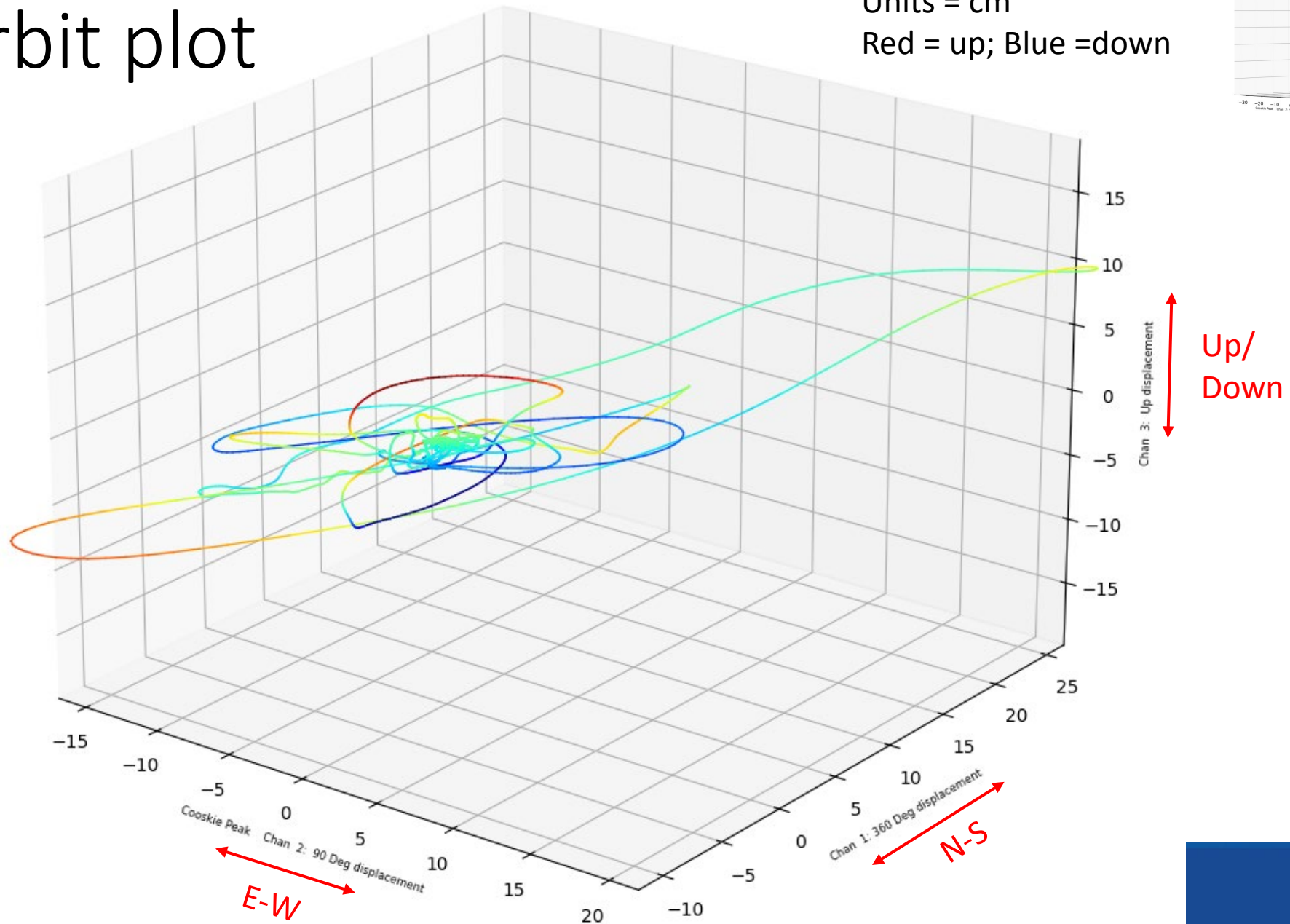
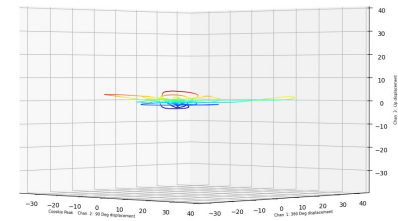


Less than ASCE7-22 Spectra for this location for most periods



3D Orbit plot

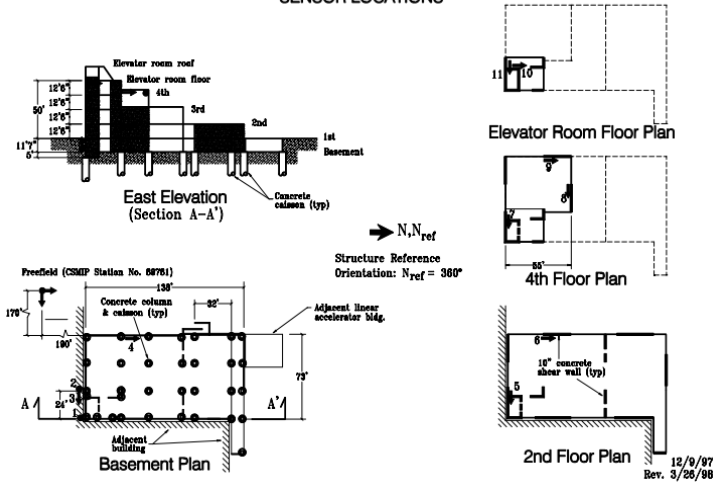
Units = cm
Red = up; Blue = down



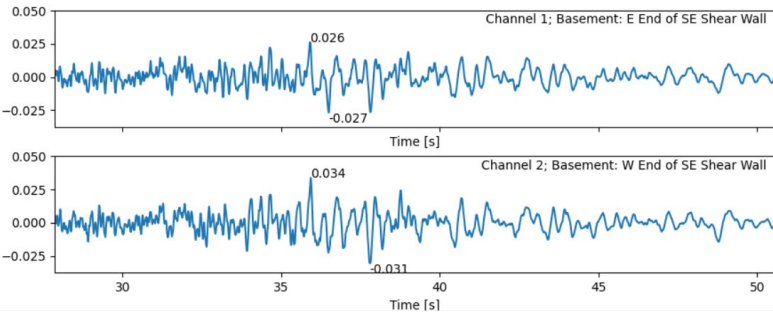
Recorded Acceleration

Eureka - 4-story Hospital
(CSMIP Station No. 89770)

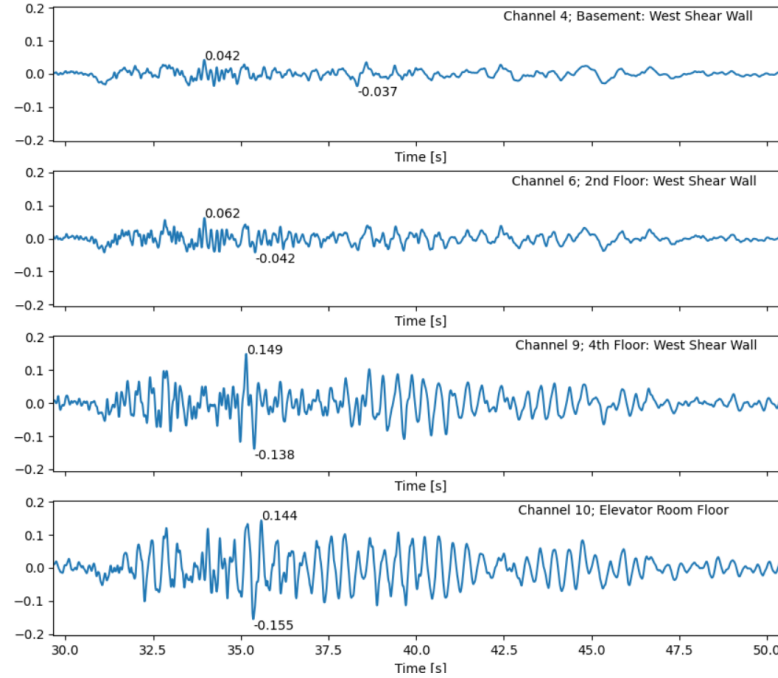
SENSOR LOCATIONS



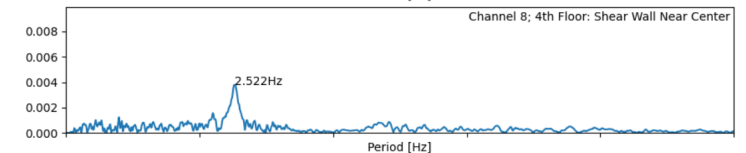
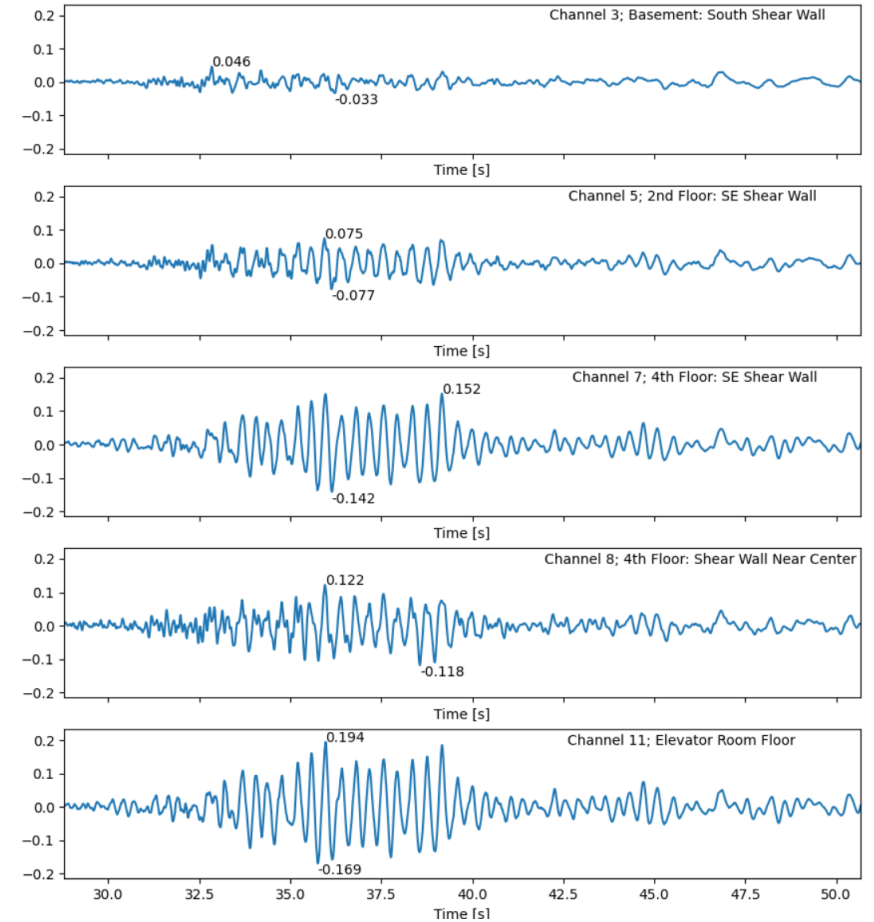
Vertical Motion Channels



NS Channels



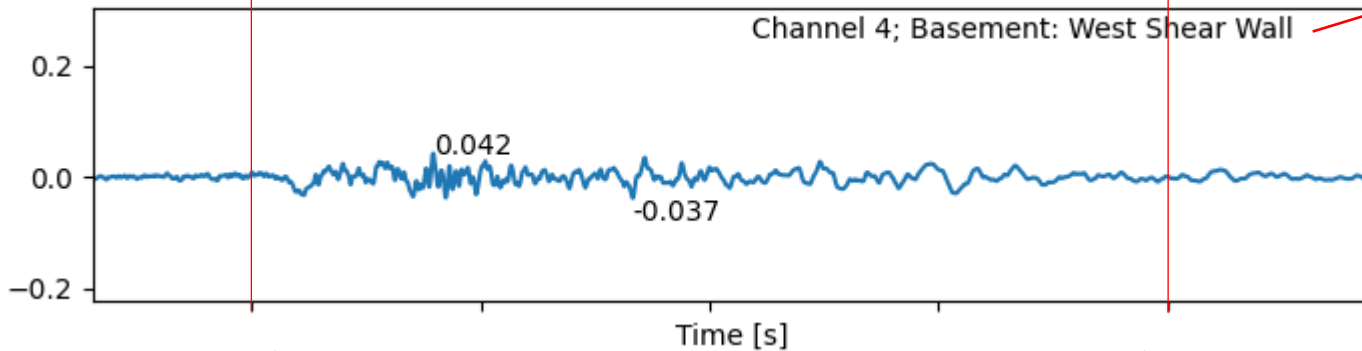
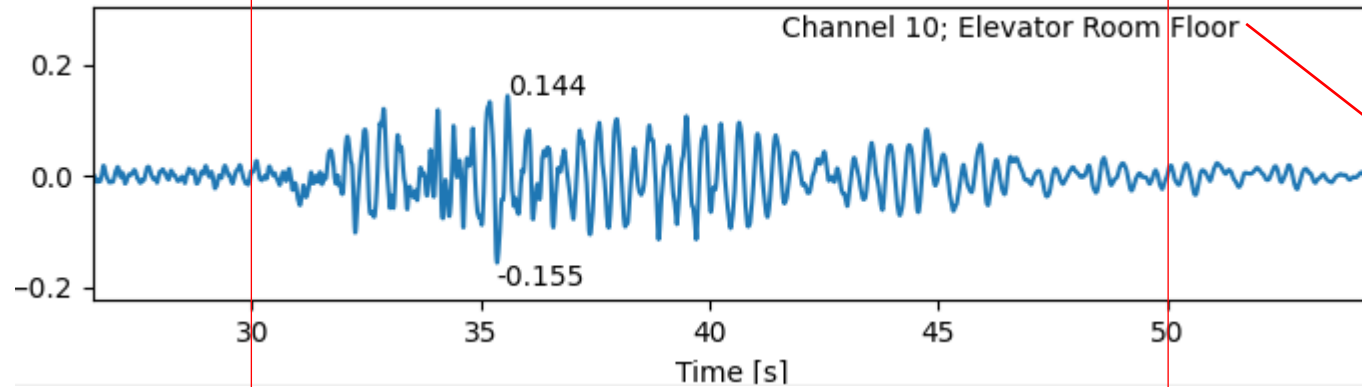
EW Channels



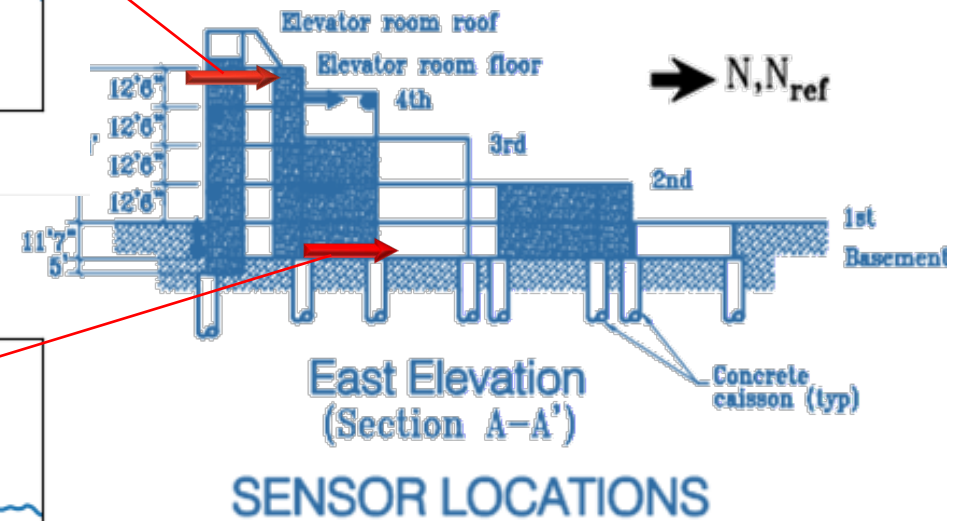
Fundamental period of building = 0.4 sec (2.52 Hz)

Recorded Acceleration

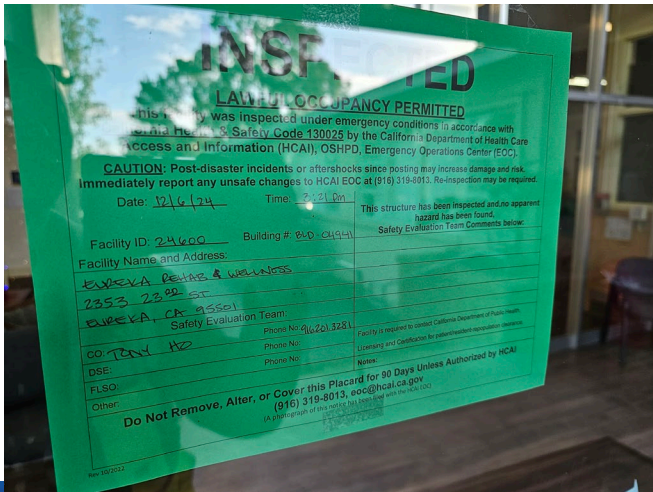
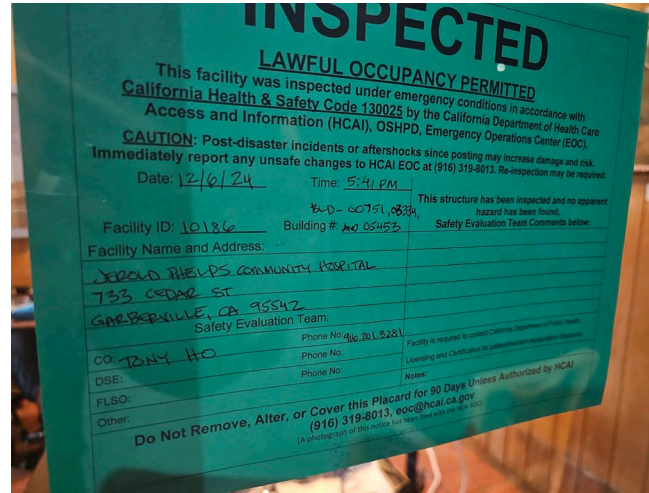
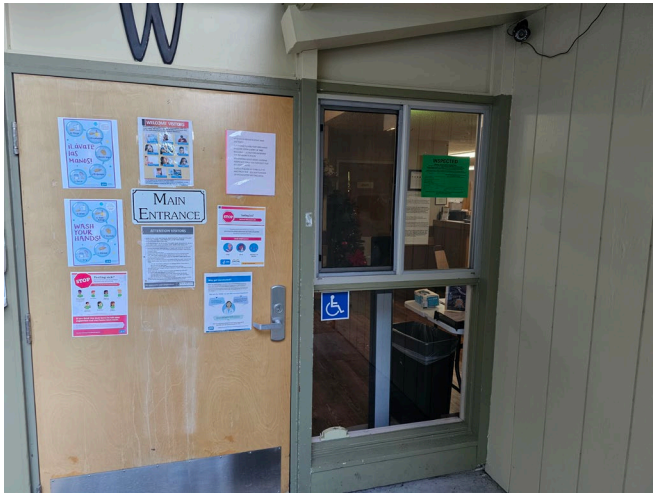
Eureka - 4-story Hospital (CSMIP Station No. 89770)



20 sec

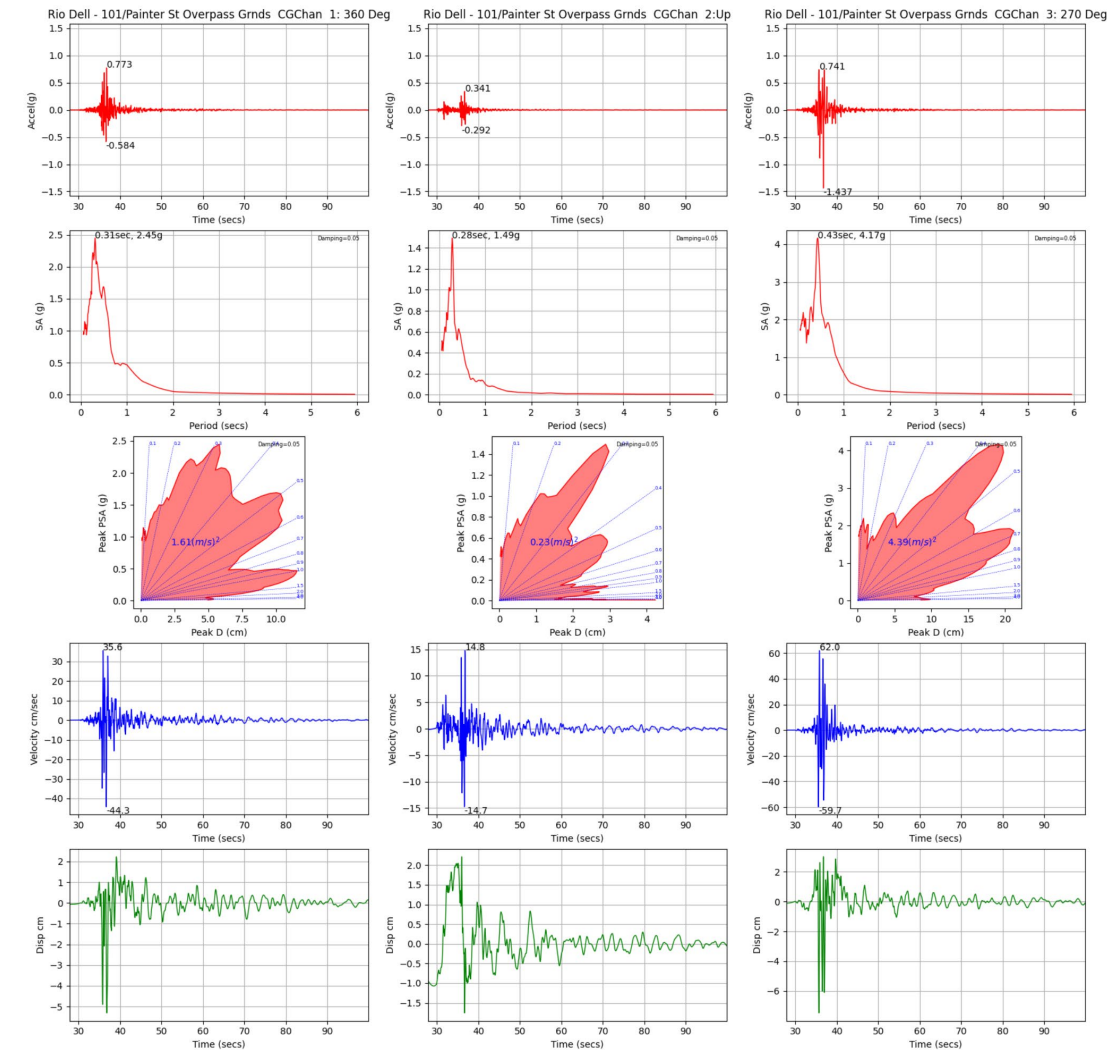


Green Tags (obviously)

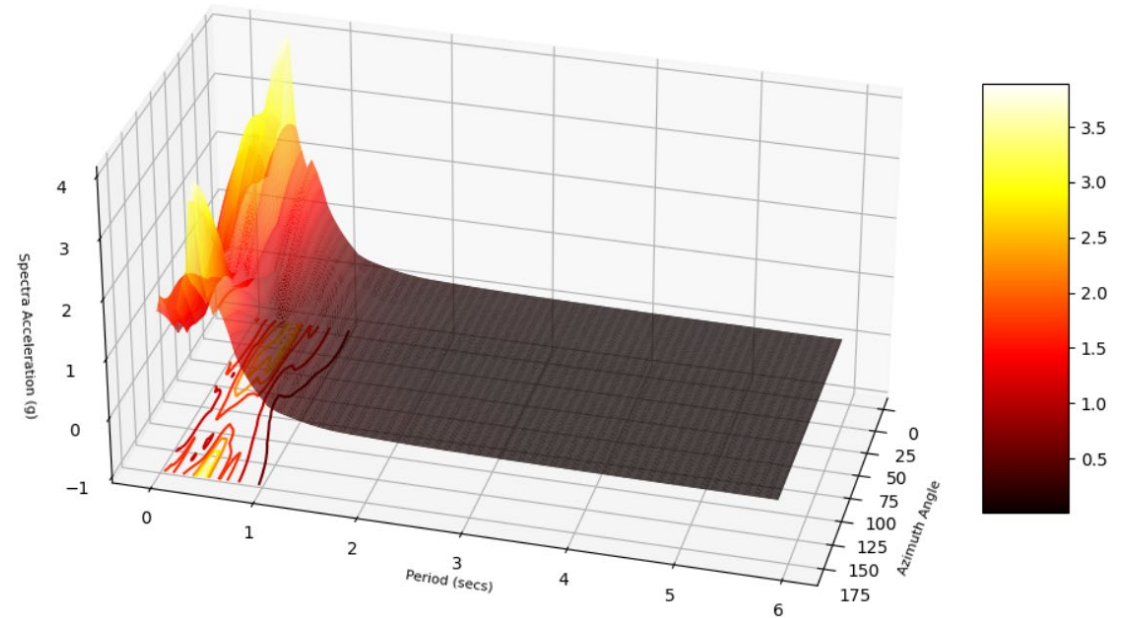
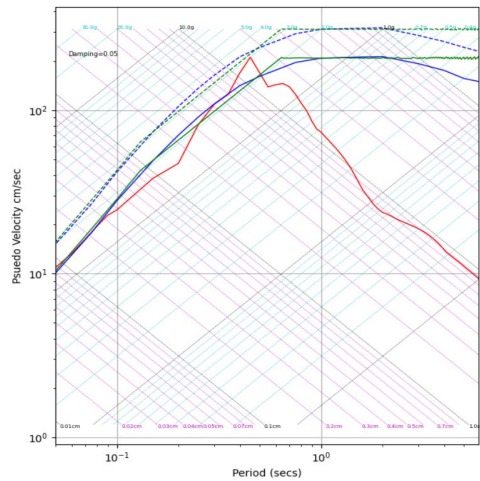
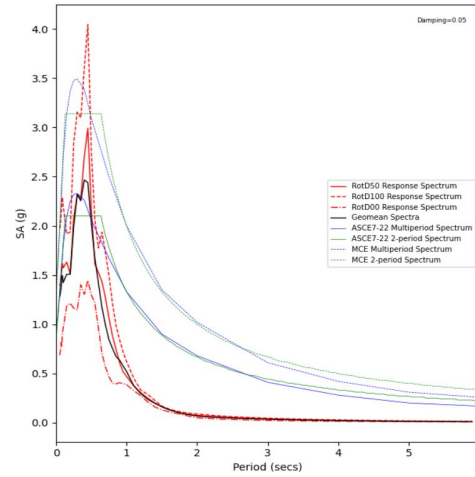
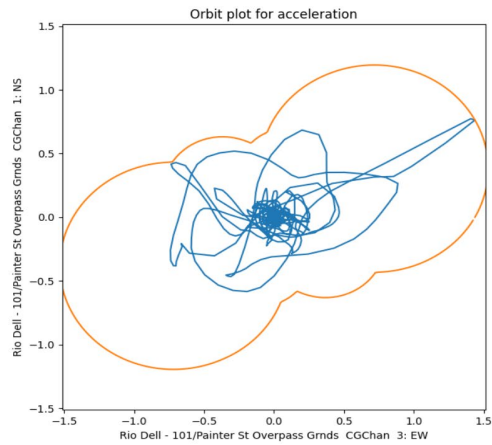


OSHPD Specialty Software for Strong Motion Records

- Software Requirement: Read COSMOS formatted V2 files.
 - Available commercial software lacking needed capabilities.
- HCAI/OSHPD Project to create needed software
 - Python platform
 - Process & view interface for COSMOS formatted V2 files



EOC software (Cont.)



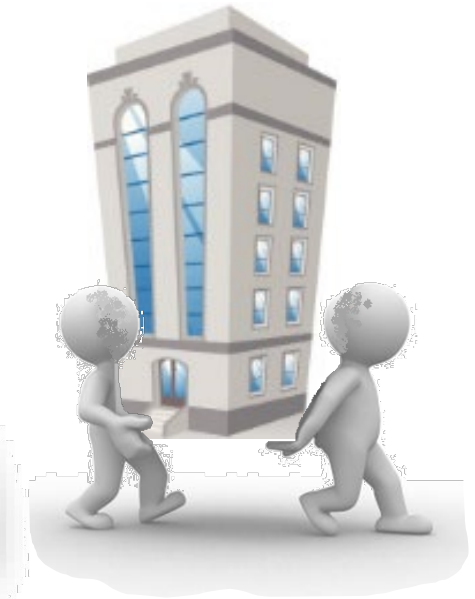
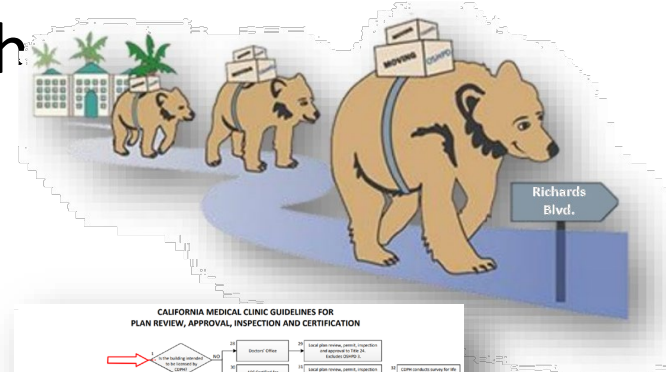
Source code available at:

<https://github.com/Githbhatia/ReadV2>

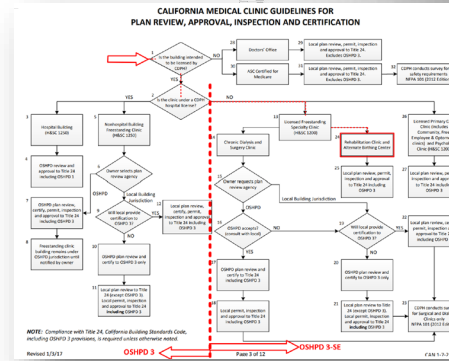
Looking Ahead

OSHPD's Top 3 Objectives for 2025

1. HCAI Office relocation and Smooth Transition to the New HCAI Headquarters Building



2. "Right-sizing" the T-24 OSHPD 3 building standards and related regulations



3. Escalate Collaboration w/ Hospitals to get them successfully into compliance w/ the 2030 HSSA seismic mandates.



HCAI will be moving Spring 2025

- 651 Bannon Street, Sacramento (Off Richards Blvd.)
- HCAI will be on the top four floors – floors 8 through 11 (OSHPD on 9th)
- No Free parking
- Access to Light Rail & Bus Transportation
- Easy access to I-5
- Close to the airport
- Do not have to go through downtown traffic



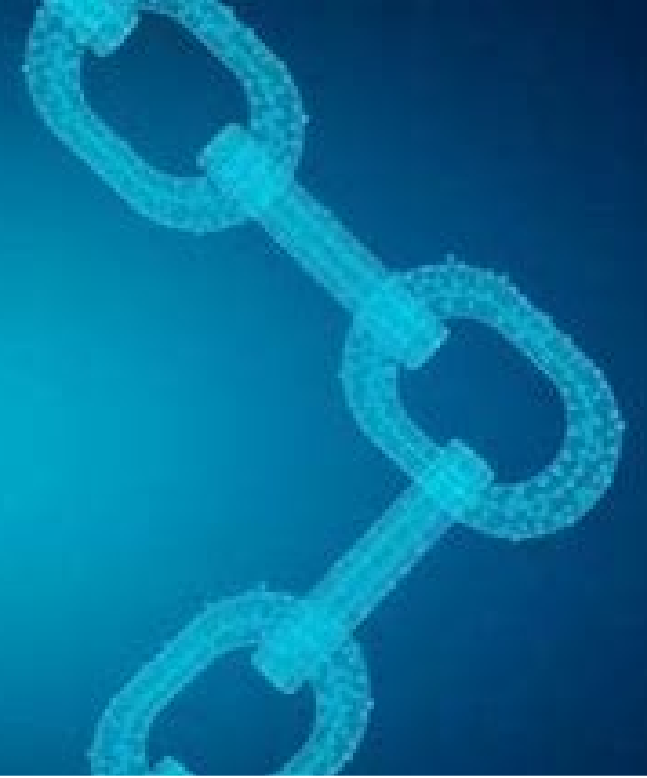
OSHPD Bonus Goal

4. Transition Accela
Database system to the cloud

Target Go-Live:
November 2025



 Accela



Happy Holidays from HCAI





- Any Questions?
- Any Answers?
- Any Additional Thoughts or Discussion?

LUNCH BREAK

Item #13

Special Presentation: Delivering the First All-Electric Hospital in the Nation

- Hospitals are some of the most energy-dense building types and can be challenging to electrify. This presentation aims to unpack the healthcare-specific design challenges related to "all-electric" hospital design for the new UCI Health medical center. We will share lessons learned and benefits from the Owner, Design Professionals and Building Official perspectives.
- Discussion and public input

Facilitators: Louise Belair; Joe Brothman, Facilities and General Services Director, University of California Irvine Health; and Chris Tokas, SE, F.SEAOC, CBO, Deputy Director, HCAI (or designees)

Delivering First All-Electric Hospital in the Nation

HCAI – Hospital Building Safety Board – Special Presentation

December 12, 2024



**Artist conceptual rendering, subject to change*



Presenters

Joe Brothman - UCI Health – Director General Services

Chris Tokas – HCAI - Deputy Director

Louise Belair – WSP - Senior Vice-President

UCI Health



Agenda

- 1 Project Overview
- 2 Project Goals
- 3 Hospital Electrification
- 4 Lessons Learned
- 5 Operational Impacts / Construction Progress
- 6 Regulatory Implications
- 7 What's Next?
- 8 Q&A

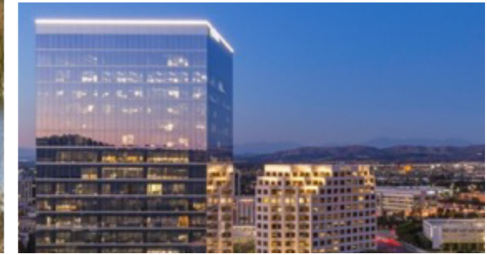




Project Overview

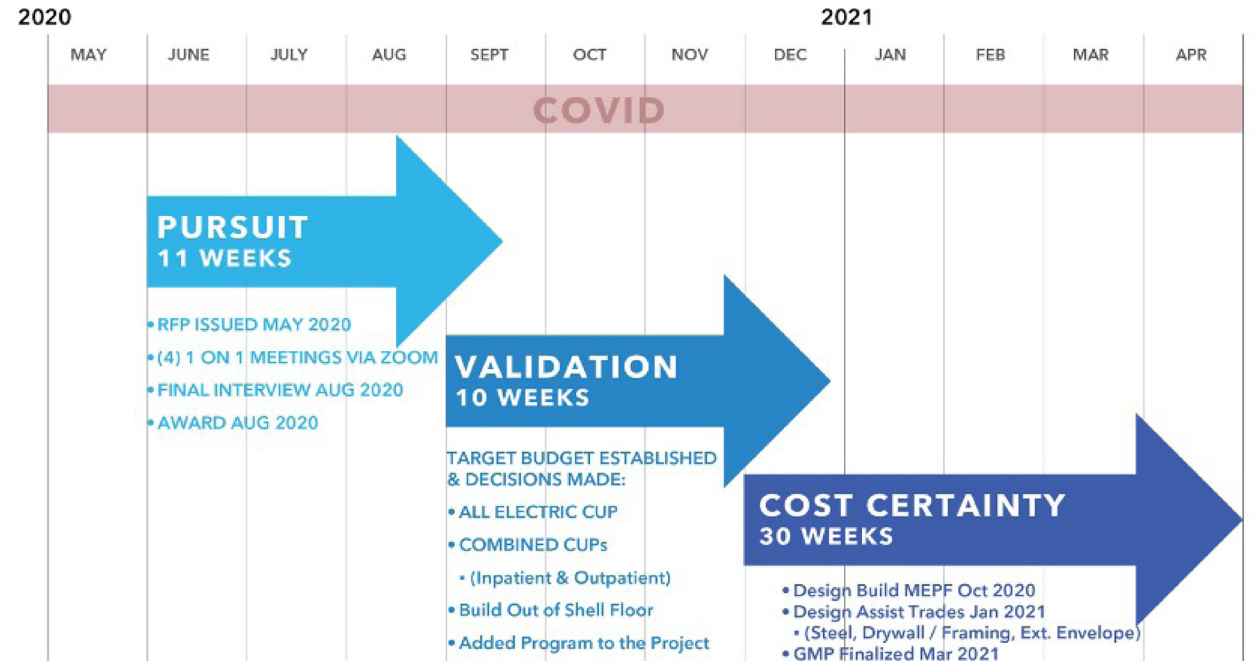
The User + The Client + Project Delivery Methods

UCI University of California, Irvine
UCI Health



PROGRESSIVE DESIGN / BUILD TEAM

- General Contractor: **Hensel Phelps**
- Architect: **CO Architects**
- Structural Engineer: **Degenkolb**
- MEP Engineers: **WSP/tk1sc**
- Civil Engineer: **Stantec**





A Place Between 2 Worlds

**CHAO FAMILY
COMPREHENSIVE
CANCER AND
AMBULATORY CARE
CENTER
223,000 SF**

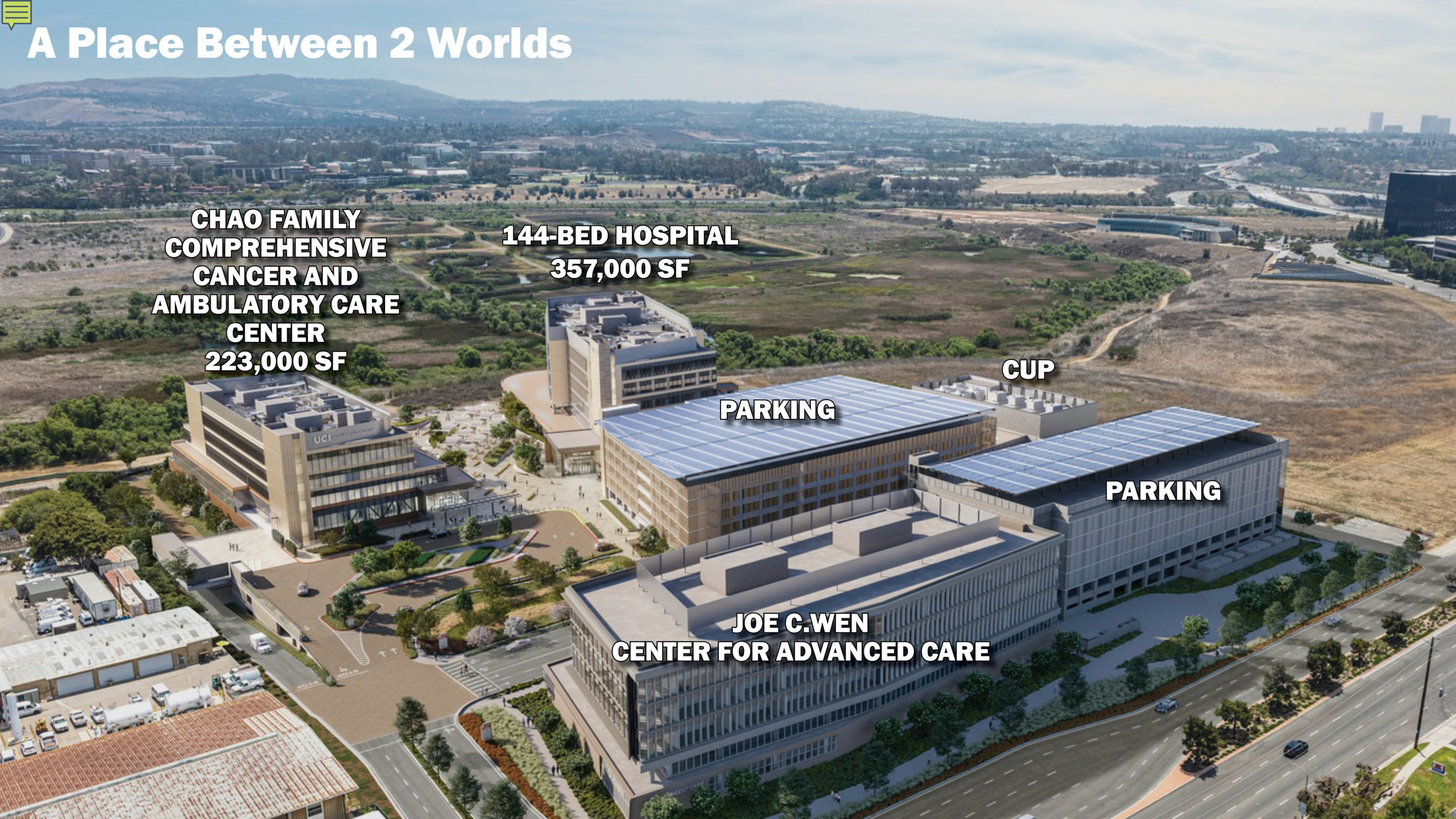
**144-BED HOSPITAL
357,000 SF**

PARKING

CUP

PARKING

**JOE C.WEN
CENTER FOR ADVANCED CARE**





Project Goals

UCOP Carbon Neutrality Initiative

UNIVERSITY OF CALIFORNIA Office of the President

Jobs People Search

HOME ABOUT ORGANIZATION INITIATIVES

Carbon Neutrality Initiative >

Carbon Neutrality Initiative

OVERVIEW ORGANIZATION STUDENT INVOLVEMENT REPORTS RESOURCES

UC, a national leader in sustainability, has pledged to become carbon neutral by 2025, becoming the first major university to accomplish this achievement.

<https://ucop.edu/carbon-neutrality-initiative/index.html>

Electrification vs Decarbonization

In the context of this presentation:

Electrification is designing a building to utilize electricity as its energy source.

Decarbonization is implementing carbon-neutral energy sources to provide that electricity.

Electrification Goals

Prescriptive DPP Requirement:

Heating Systems

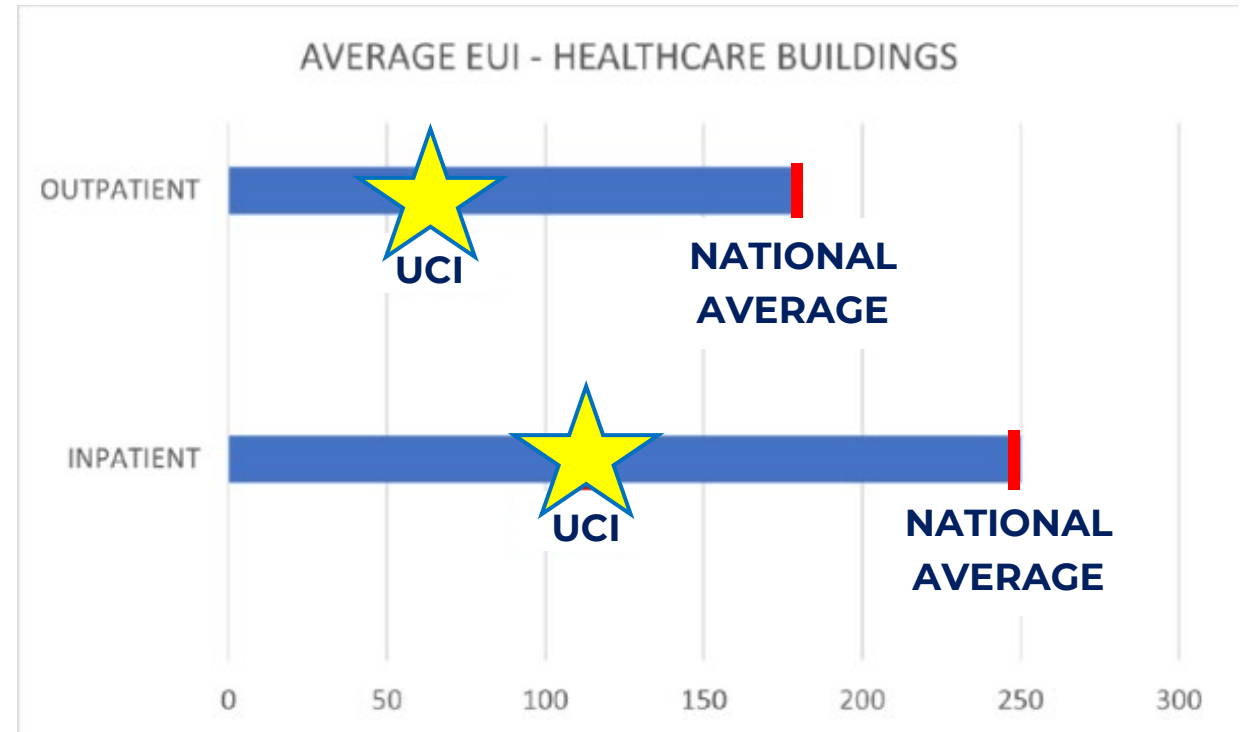
Domestic Hot Water Systems

Self Imposed Stretch Goal:

Steam Systems (Process and Humidification)

DPP Energy Goals

- Clinics and Ambulatory Services
 - EUI stretch goal 62 kBtu/sf/yr
- Acute Hospital Building
 - EUI stretch goal 115 kBtu/sf/yr

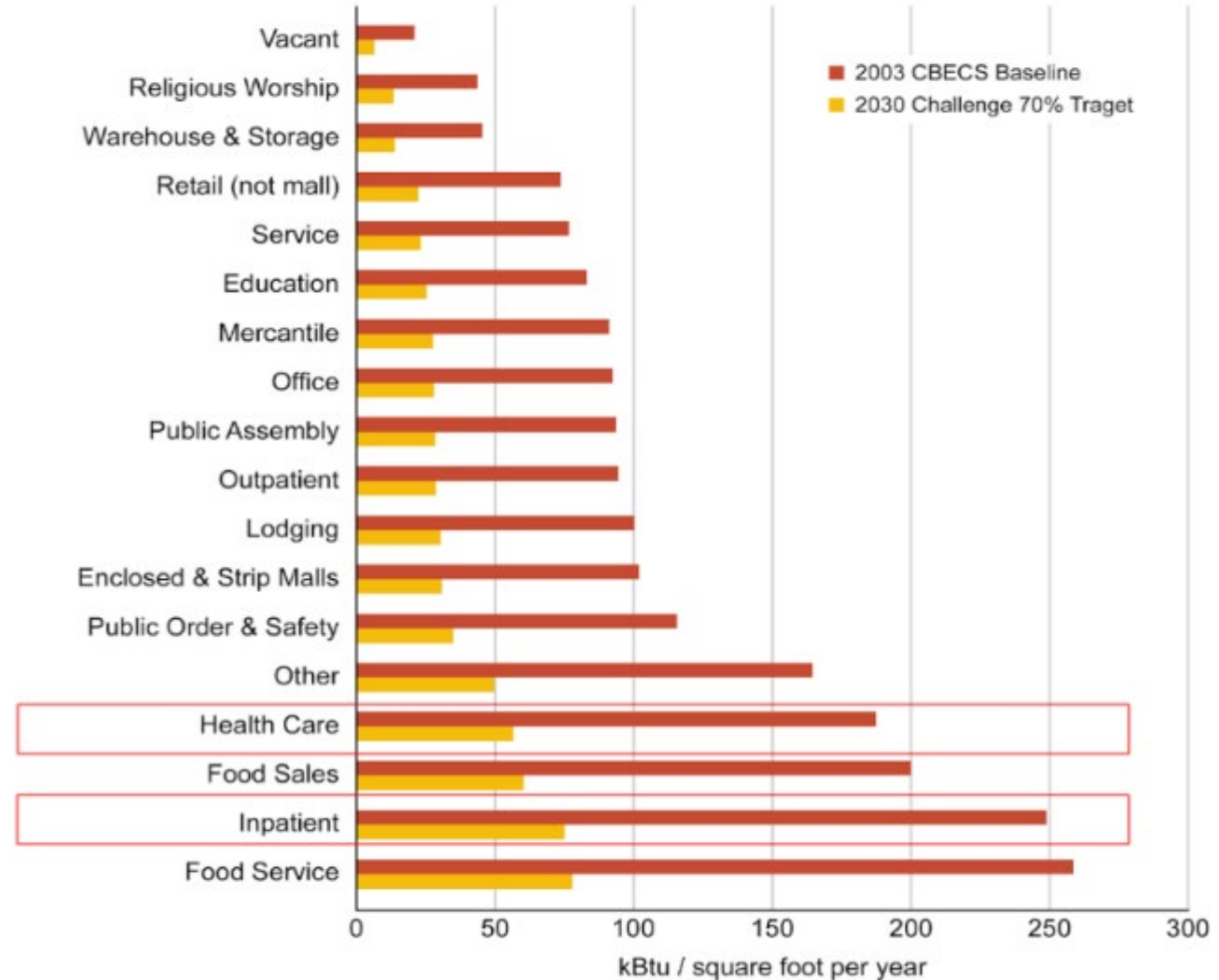




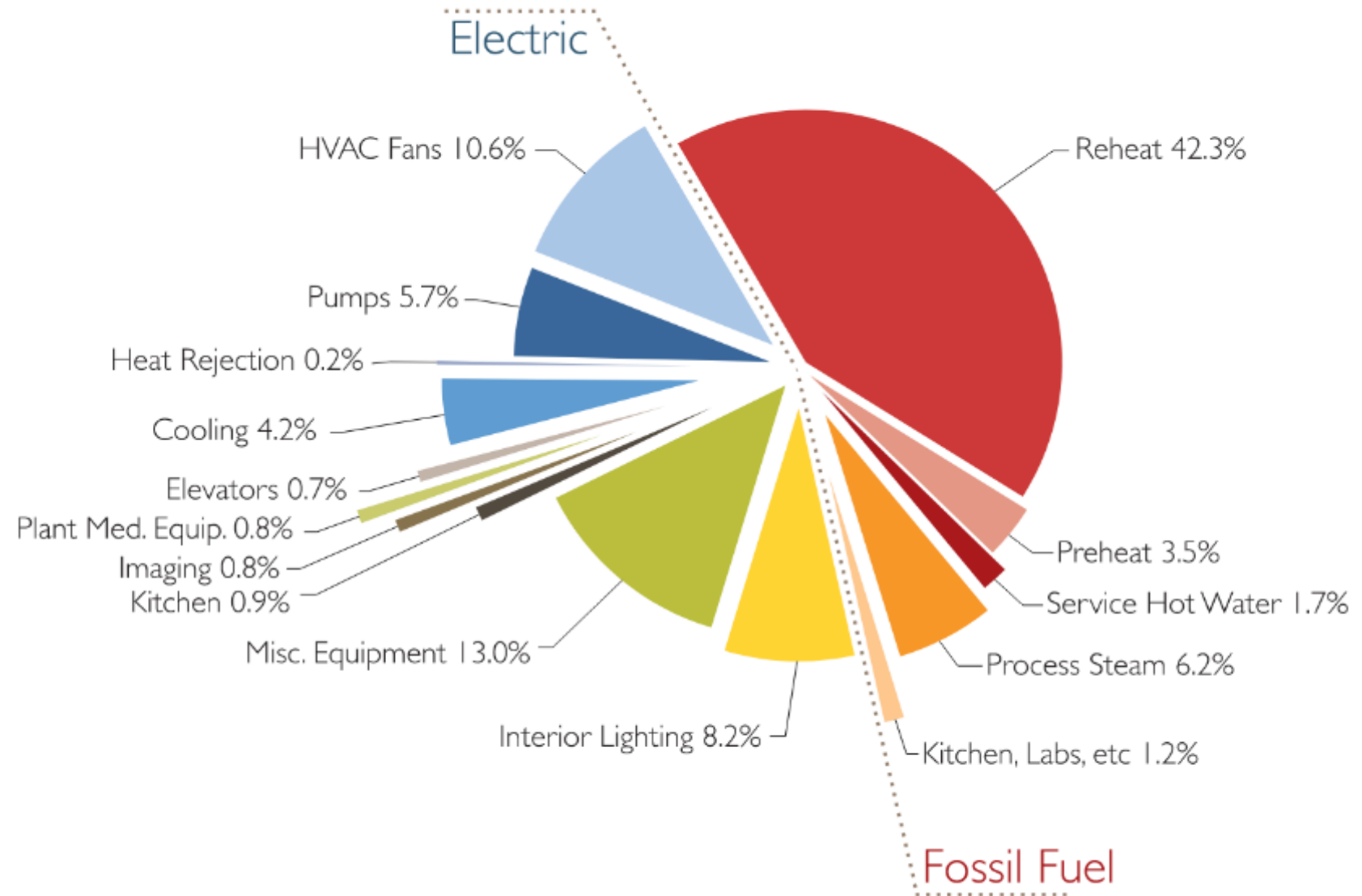
Hospital Electrification

How Does Healthcare Stack Up?

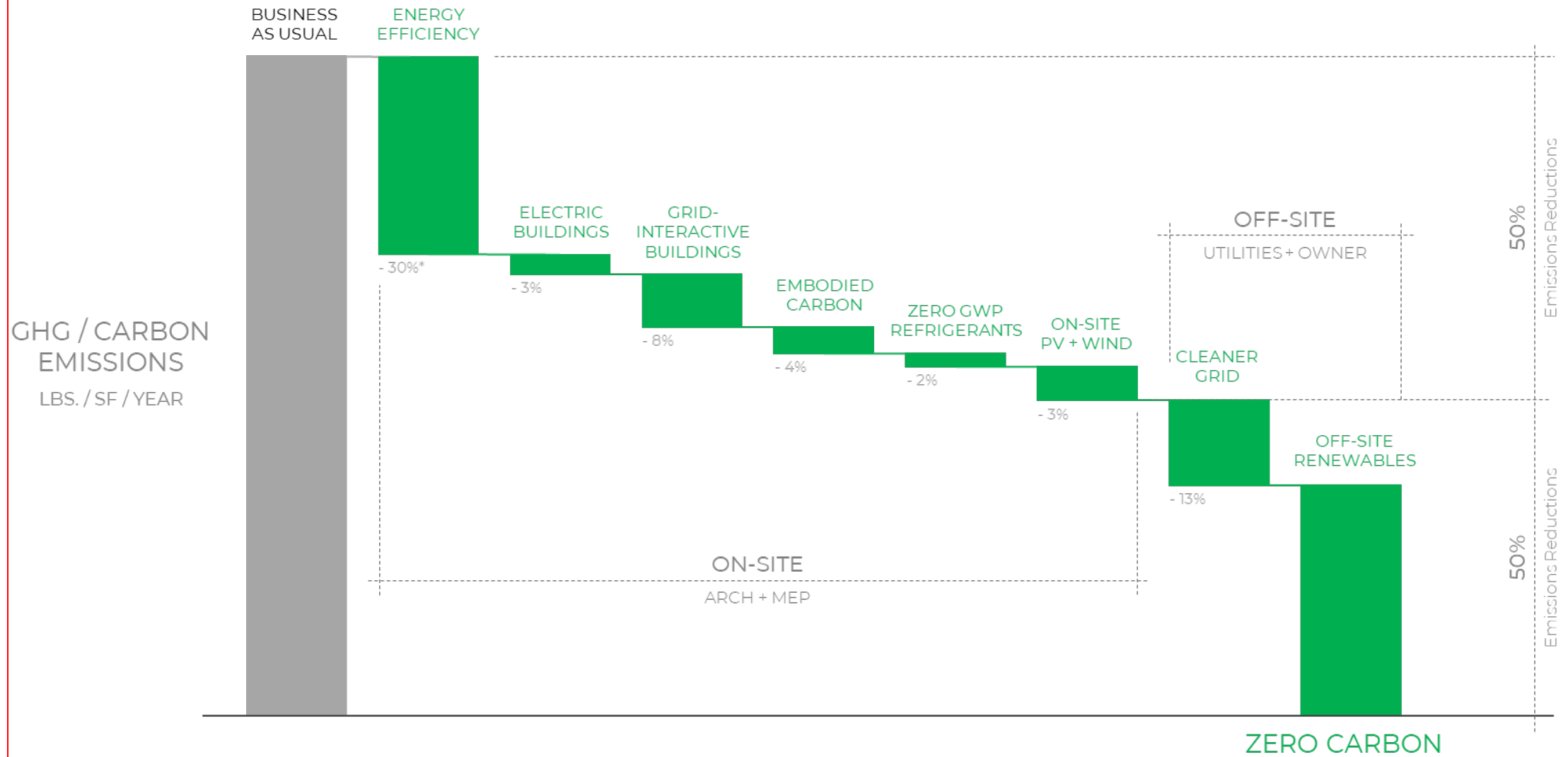
Site Energy Use Intensity (EUI) by Building Type



Traditional Healthcare Energy Sources



Pathway to Zero-Carbon Buildings

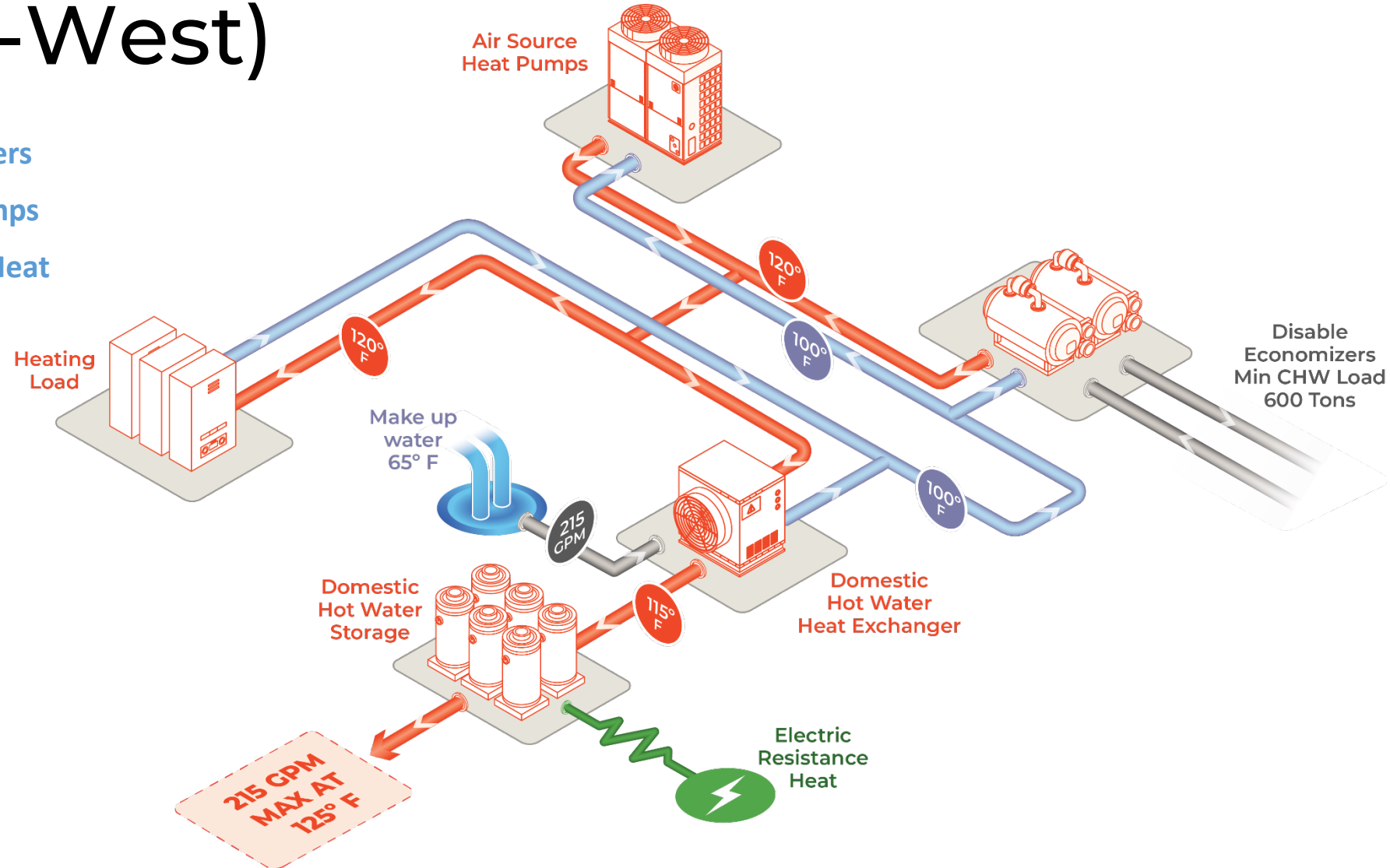


Heating & Domestic Hot Water (South-West)

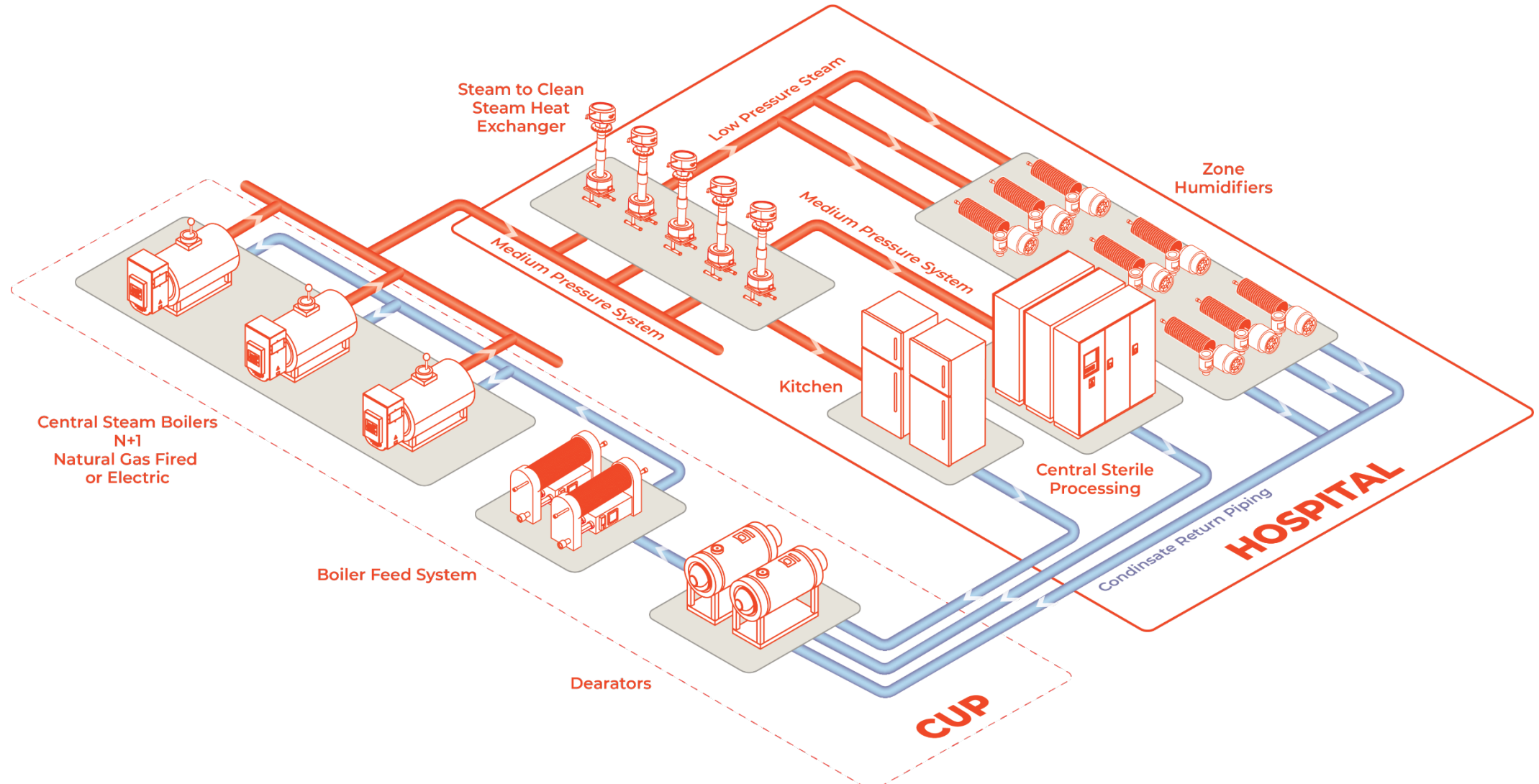
Heat Recovery Chillers

Air Source Heat Pumps

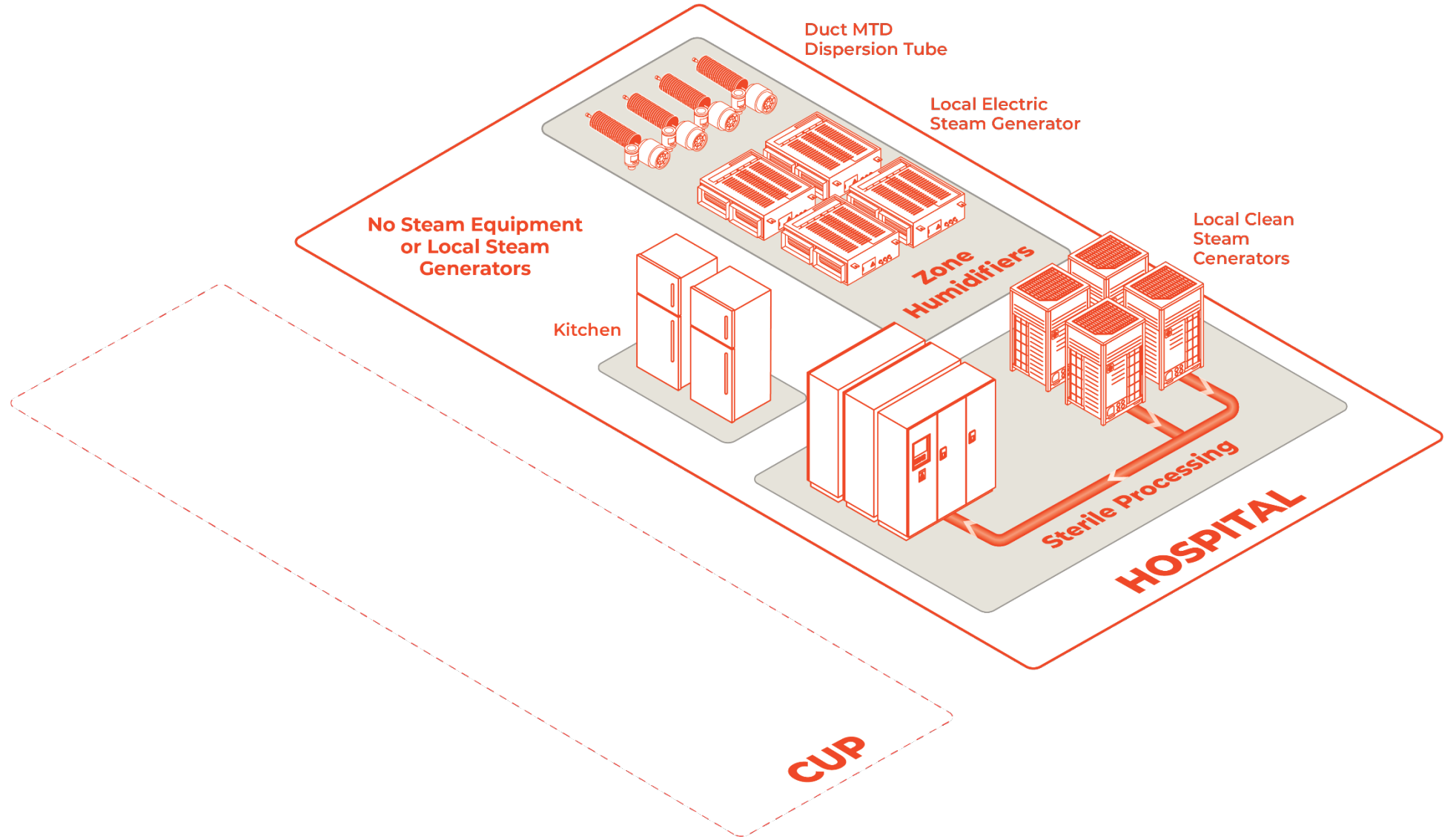
Electric Resistance Heat



Traditional Steam System



Distributed Electric Steam System



Electrical Infrastructure

Overall Electrical system Impact

- Across the entire square footage of the Hospital and ACC, the total electric heating, humidification, and steam load came in around 3.55 VA/SF. Approximately 15% to 20% increase for a Hospital and ACC by our historic data on similar facilities.
- The CUP/Hospital/ACC Service infrastructure grew by 2,682 A.
- The CUP generator system grew by approximately 2,303 kVA.
- The required PV renewable energy system required to offset at least 10% of the facilities energy consumption per LEED for Healthcare increased as well – due to the higher electrical energy costs.

Electrical Infrastructure

Overall Electrical system Impact - Planning

- If I were planning a new facility like this, I would use the following conservative planning estimates, until the final loads can be determined:

Heating: 2.6 VA/SF

Humidification: 1.6 VA/SF

Steam (Sterilization): 0.5 VA/SF

Total: 4.70 VA/SF

Lessons Learned



Equipment Availability

Heat Recovery Chillers Air Source Heat Pumps

- Limited Vendors Available with OSP
- Site Specific Seismic Certification Option



Acoustics

ASHP's are loud!

Location is VERY important

Acoustical Mitigation may be required



Space Requirement

Additional outdoor space required for air cooled equipment



Utility Grid Capacity

Electrification of Hospitals Will Impact our Electric Utility Grid

- The electrical grid is already being pushed to its current capacity with the overall trend to decarbonization/electrification and EV charging.
- The UCI ICMC project required a dedicated 12kV circuit from SCE – which is taking approximately 2-3 years for SCE to accommodate.
- The additional circuit required to accommodate the future phase of the UCI ICMC project will not be ready for 6-8 years.

What's Next?

All Electric Kitchen Equipment

Eliminate Diesel Generators

- Microgrids / Fuel Cells
- Battery Storage





Operational Impacts

Steam Operational Maintenance Cost

Centralized Natural Gas Fired Steam System

\$1,751,040 Annual Maintenance Cost

Distributed All Electric Steam

\$337,920 Annual Maintenance Cost

Annual Maintenance						
Building	Equipment	Count	Hours/month	\$/hr	\$	
CUP	(3) 125hp NG steam boilers		720	(full time operator)		
	Feed Pump		inc.			
	Deaerators		inc.			
	Chemical Treatment System			16		
	4" MPSS to Hospital			4		
	4" MPSS to ACC			4		
	2" PCR from Hospital					
	2" PCR from ACC					
Hospital	Humidification 2000lb/hr 15psi Clean Steam HX			4		
	Sterilization 2000lb/hr 65psi Clean Steam HX			4		
	Kitchen Steam Clean Steam Heat Exchanger?					
	Duplex Condensate Return Pump			4		
	Steam Traps			8		
	Zone LPSS Humidifiers					
		Garden	16		16	
		Plaza				
		2				
		3	32		32	
	4	32		32		
	5	32		32		
ACC	Humidification 1000lb/hr 15psi Clean Steam HX			4		
	Sterilization 2000lb/hr 65psi Clean Steam HX			4		
	Duplex Condensate Return Pump			4		
	Steam Traps			8		
	Zone LPSS Humidifiers					
		Garden	16		16	
		Plaza				
		2				
		3				
		4				
Annual Maintenance				10944	\$ 160	\$ 1,751,040

Electric Steam Simple Payback

Electrification 1st Cost Premium

Mechanical (\$680,000)

Electrical \$3,450,000

Total Cost Premium \$2,770,000

Annual Operational Cost Savings \$737,000

Simple Payback 3.8 Years



Construction Progress





Airstack

Airstack

MODULE #6

CC

Construction in Progress

February 2024





Regulatory Implications

California's Climate Commitment

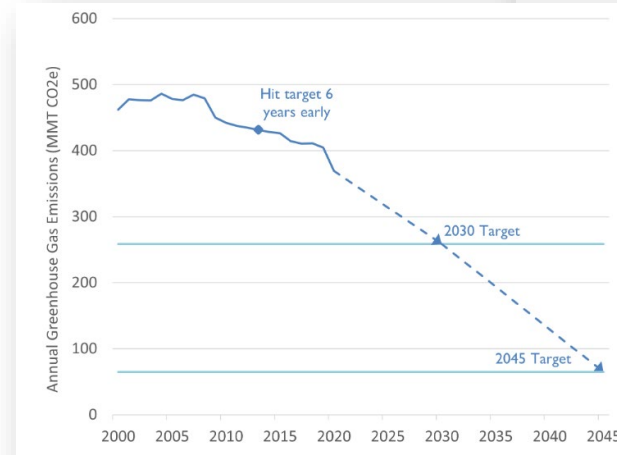
- 2006: AB 32 Global Warming Solutions Act of 2006
 - Reduce its greenhouse gas (GHG) emissions to 1990 levels by 2020
- 2021: Governor Newsom Signs Climate Action Bills to Tackle the Climate Crisis and Protect Vulnerable Communities
- 2022: California Releases World's First Plan to Achieve Net Zero Carbon Pollution
- 2023: Governor Newsom Unveils New Proposals to Build California's Clean Energy Future

CALIFORNIA'S CLIMATE PLAN
LAYS THE ROADMAP TO 2045




CALIFORNIA CLIMATE COMMITMENT
New, World-Leading Climate Action

- The California Climate Commitment, Governor Newsom's comprehensive plan to:
 - Cut pollution, transition away from big oil
 - Deliver clean, reliable, and affordable energy
 - Save Californians money and create prosperous communities



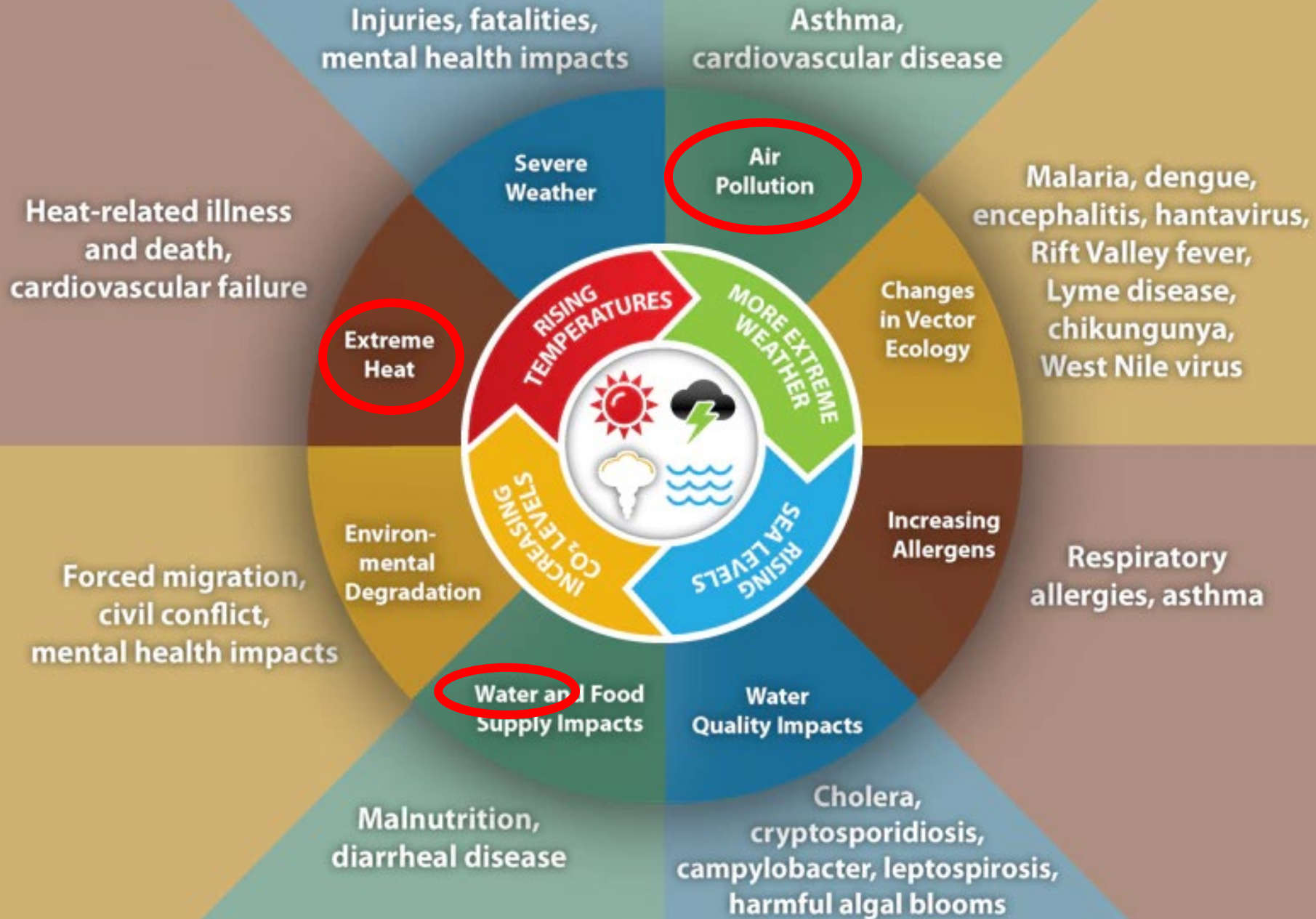
...ians from extreme heat, wildfires, and drought

...and accelerating the transition away from big polluters, Governor to the most robust, comprehensive climate action in history – the commitment invests **\$54 billion to fight climate change** and enacts new that **cut pollution, deploy clean energy and new technologies, and m harmful oil drilling**

...nt will:
...tion by 71%
...use gas emissions 85% by 2045
...oil consumption to less than one-tenth of what we use today, a 94% drop
...and 86% drop in demand for all fossil fuels
...in new jobs
...ns \$200 billion in health costs due to pollution

DRIVING CLIMATE ACTIONS
...AB 1279 establishes a clear, legally binding, and achievable goal for statewide carbon neutrality as soon as possible, and no later than 2045, emissions reduction as part of that goal.
REINFORCING CLEAN ENERGY: SB 1020 creates clean energy targets of 90% by 2035 and 95% by state's trajectory to 100% clean energy by 2045.
CUTTING POLLUTION: SB 905 and SB 1314 establish a regulatory framework for of carbon removal and carbon capture, utilization and sequestration, for the continued production of fossil fuels.
PROTECTING FROM HARMFUL OIL DRILLING: SB 1157 establishes a setback between any new oil well and homes, schools, or parks. Ensures ion controls for existing oil wells within 3,200 feet of these facilities. AB 1757 requires the state to develop an achievable carbon removal working lands.

Impact of Climate Change on Human Health



Building Technologies Program

EnergySmart Hospitals

Creating Energy Efficient, High Performance Hospitals

“Hospitals are among the nation’s most complex, diverse, and energy-intensive facilities.”

“Hospitals use 836 trillion BTUs of energy annually and have more than 2.5 times the energy intensity and CO₂ emissions of commercial office buildings, producing over 30 lbs. of CO₂ emissions per square foot.”

“Utility bills account for about 1% of campus operating costs. However, with some 8 million square feet to heat, cool, and power in 26 buildings covering four city blocks, that 1% adds up to tens of millions of dollars.”

– Tom DeBoer, Chief Engineer,
Mayo Clinic campus, Rochester MN
January 2008

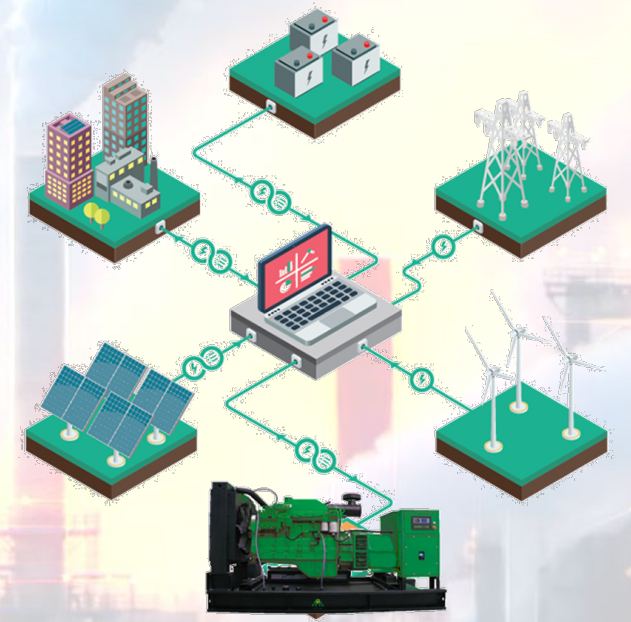
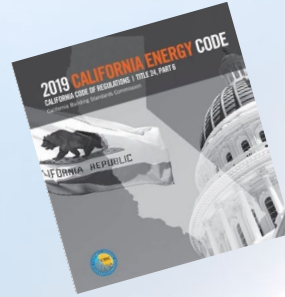
Modern Healthcare

DOE Goals of *EnergySmart* Hospitals

- Promote 20 percent improved efficiency in existing buildings and 30 percent in new construction over current standards
- Increase efficient and renewable energy applications in hospitals
- Reduce energy use and operating costs
- Create healthier healing and work environments
- Maximize successful hospital upgrades and design strategies
- Ensure reliable backup power during disasters
- Improve environmental performance

Climate Change & Health Equity - The HCAI/OSHPD Response

- 2019 CBSC, Part 6 - Energy Code
 - Building Envelope
 - Mechanical Systems
 - Lighting systems
 - Domestic hot water systems
- Decarbonization
 - Operational Carbon
 - Microgrids
 - The all-electric hospital
 - Standard sequence of operations for ORs, ASHRAE Guideline 36
 - Embodied Carbon
- The self sufficient/sustained (“island”) Hospital
- . . .



Questions

Item #14

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.

Facilitator: Louise Belair (or designee)

Item #15 Adjournment
