

CEHMC May 2020 notes
May 21, 2020
Phone-in meeting

Attendees

Vince Matthews, Wayne Charlie, Robin McGuire, Rob Jackson, Linda Rowan, Mike Haughey, Sean McGowan, Matt Morgan, Will Levandowski, Chuck Mueller, Holly Janowicz, James Horne, Steve Board, Kyren Bogolub

Additions to agenda None

Approval of minutes from the March 19, 2020 meeting Approved and seconded.

Critical Facilities Inventory Subcommittee

NETAP training: FEMA E-74 and FEMA P-154, will take place June 12 and 15 (virtual training)

Brochure on Colorado earthquake hazards and CEHMC Website Brochure is ready. Matt M. will provide a copy to the group. Website is under construction. Comments solicited.

Update on Cheraw Fault trench re-excavation, Fall 2019 (Mark Zellman)

Deferred. Mark not in attendance.

Presentation by Keith Porter, PE PhD, Research Professor at the University of Colorado: How the “Natural Hazard Mitigation Saves 2019 Report” Matters to Colorado

www.nibs.org/page/mitigationsaves

Disaster losses are growing 10 times faster than the population. The population is migrating toward higher hazard areas; wildfire and hurricane mainly. Building three new (larger) homes for every one house demolished. Design is focused on safety and least first cost rather than considering the total cost of ownership.

Total costs and benefits of new design to comply with 2018 I-Code requirements for earthquake, relative to 1990 produce a benefit-cost ratio of up to 12:1. The highest benefit-cost ratios for seismic code compliance are in high-seismicity areas.

Colorado is a home rule state. Much of the state's local code adoption is several code cycles behind the current codes.

Possible actions that could be taken by the CEHMC:

- Urge code adoption, enforcement and optimization.
- Make presentations to building owners (BOMA) regarding evaluation and retrofit.
- Incentivization pilot study (via NIBS)

<https://www.sparisk.com/index.php/pubs/>

Discussion

What language would be applicable for amending the IBC to exclude Seismic Design Category A, especially for schools? Rob Jackson provided the following post-script to the meeting along with the entire submittal for code amendment presented on behalf of the Structural Engineers Association of Colorado – Denver Building Department Liaison Committee:

Below is the basic language in the City of Denver’s amendments to the 2018 IBC.

“1613.2.5.3 Seismic design category, minimum. All buildings and structures in the City and County of Denver shall satisfy the requirements of Seismic Design Category B, as a minimum.”

Rob also mentioned that the EERI Public Policy and Advocacy committee web page includes a policy position paper that written on adopting current, effective building codes:

<https://www.eeri.org/advocacy-and-public-policy/promoting-the-adoption-and-enforcement-of-effective-building-codes-with-earthquake-provisions-in-the-united-states/>

A sheet of talking points could also be developed regarding aspects of earthquake risk mitigation in Colorado of which there is little awareness; such as the merit of designing for Seismic Design Category B minimum as is done in Denver.

Date of next meeting: July 16, 2020

Possible speakers: Bob Kirkham; Jackson Bell, MS Student at CU-Boulder.