

CEHMC November 2020 NOTES

November 19, 2020

Remote Zoom meeting

Attendees: Rob Jackson, Matt Morgan, Keith Porter, Matt Morgan, Ivan Wong, Michael Haughey, Allison Shumway, Bob Kirkham, Sean McGowan, Steve Boand, Kyren Rix Bogolub, Robin McGuire, Jim Harris, Alex Hatem, Dee Stevens, Mark Petersen, AJ Unander, Holly Janowicz

Approval of minutes from 17 September 2020 meeting motioned, seconded, and approved.

1. “What ground motion models should be used in Colorado?” Presentation by Ivan Wong, PG, Senior Principal Seismologist, Lettis Consultants International

Ivan’s presentation focused on his work to assess seismic attenuation conditions in Colorado to determine what ground models are appropriate for use in the state for seismic hazard studies. His analysis finds that stress drops, kappa, and Qo values are more consistent with western US conditions rather than CEUS. The NGA-West2 models support these findings which is why Ivan recommends the GMM boundary in the NSHM should be moved to the east.

Ivan addressed CEHMC questions following the talk. The group discussed felt reports for the 1886 ~M6.6 earthquake and the history of how the original boundary between the CEUS and WUS was drawn. Mark Petersen and Allison Shumway mentioned that the USGS will look into updating the CEUS/WUS boundary as part of the 2023 update to the NSHM.

2. Continue discussion of the 2020 Building Resilient Infrastructure and Communities (BRIC) program. The CEHMC and Colorado Division of Homeland Security and Emergency Management are applicants for the Colorado Schools Earthquake Resilience Investigation. A letter of support is needed from CEHMC later this month.

Steve provided an initial look at concerns previously raised by CEHMC over the past few years, specifically pertaining to earthquake mitigation for schools. The proposal is focused specifically on earthquake hazard. Steve is looking for thoughts from CEHMC on the approach and comments on the proposed study.

- K. Porter – suggests expanding to other hazards such as fire in wildland urban interface and flooding. The outcome would be to increase proposal scoring.
- R. Jackson – suggests minimum seismic design category for schools in Colorado.
- V. Matthews voiced support for the proposed focus areas.
- The CEHMC responsibilities will be in an advisory role.
- S. Boand – draft proposal will be available around Nov 30 and the final version will be due in December 2020.

3. Critical Facilities Inventory Subcommittee. Hospital Efforts deferred to a post-pandemic timeline.

4. Update of CGS/CEHMC website

M. Morgan and K. Bogolub have no updates to report.

5. Brochure on Colorado Earthquake Hazards

Completed – this topic to be removed.

6. Discuss any new relevant seismic hazard updates for the state of Colorado; new / ongoing projects, research, or any other topics of interest

M. Zellman mentioned that the USGS is in the process of updating the crustal fault sources for the 2023 NSHM update. The USGS has proposed increasing the number of crustal faults in Colorado to a total of 14 faults.

7. Other topics:

- Oliver Boyd will replace Chuck Mueller at the USGS representative for the CEHMC calls.
- K. Porter is offering SAP ATC20 and ATC45 training on Sunday Feb. 7, 2021

8. Date of next meeting:

- January 21, 2021

9. Possible future speakers:

- Kathleen Wilmes of DHSEM on Utah Wasatch Fault Earthquake preparation, a Colorado perspective
- Bob Kirkham

10. Possible future speakers:

- 2021 meeting schedule: Jan 21, March 18, May 20, July 15, Sept 16, and Nov 18.