

CEHMC November 2021 MEETING NOTES

May 20, 2021

Remote Zoom meeting

Attendees: Rob Jackson, Matt Morgan, Bob Kirkham, Oliver Boyd, Patricia Gavelda, Matt Arsenault, Dee Stevens, Kyren Bogolub, Mark Petersen, Dan McNamara, Justin Pearce, Robin McGuire, Sean McGowan, Will Levandowski, Michael Haughey, Mark Zellman.

Approval of minutes from March 18, 2021 meeting motioned, seconded, and approved.

1. **Presentation by Mark Petersen (USGS) - Plans for the CEUS-WUS attenuation boundary in the 2023 NSHM Update.**

- USGS is considering change to the Western US / CEUS attenuation boundary as part of their planned 2023 NSHM update.
- USGS held a workshop on April 28, 2021 which covered history of the CEUS/WUS boundary. Also discussed new data/research
 - Evaluating kappa
 - Improving regional ground motion attenuation boundaries and models
- Remaining tasks for the USGS include:
 - Review previous studies
 - Review, process and plot data
 - Develop straw-man boundaries and perform sensitivity studies
 - Discuss results with the working group
 - Present draft models at the USGS 2023 NSHM Workshop.
- Mark Petersen, Oliver Boyd, and Will Levandowski provided comments about the CEUS-WUS attenuation boundary.

The options USGS are considering include:

1. Moving CP and RMZ into Western US.
2. Shift "upper cut" boundary further to the north.
 - a. "hard boundary" for the seismicity catalog and use logic tree for the GMMs.
 - b. New catalog for the Rocky Mountain and Colorado Plateau regions - transition zone, no longer a hard boundary.
3. Logic tree approach with old and new boundaries.

2. **The 2020 Building Resilient Infrastructure and Communities (BRIC) program and the Mitigation Project Proposal entitled "Colorado Earthquake Resilience Investigation - Code Review & Rapid Visual Screening Pilot Study".**

Update provided by Matt Arsenault (acting Colorado state hazard mitigation officer) and Patricia Gavelda. Steve Boand has left his position as of April 2021. CO is waiting for incoming information from FEMA and there are no updates on the status of this project. New information might be available in late summer (August?) 2021. State and local hazard mitigation plans are prioritized over the CEHMC proposal.

3. **Critical Facilities Inventory Subcommittee - Keith Porter.**

- Keith is not on the call - postponed discussion.

4. **The Seismic Committee of the Structural Engineers Association of Colorado - New Position Statement on the Seismic Safety of New Colorado Schools - Rob Jackson.**

- Rob Jackson and the SEAC seismic committee are generating a position statement on Seismic Design Category B requirements. The document is in draft status.

5. Update of CGS/CEHMC website.

- Rob Jackson is working to update the roster.
- Meeting minutes are on the website.
- Utah seismic hazard council as an example of content we could plan to share.

6. New and Relevant Seismic Hazard Updates for the State of Colorado; new / ongoing projects, research, or any other topics of interest.

- Cheraw work is in manuscript format.
- IRIS seismic stations & museum partners.

7. Date of next meeting:

- July 15, 2021

8. Possible future speakers:

- Kyren Bogolub (CGS) - Colorado seismic stations
- Kathleen Wilmes (DHSEM) - Wasatch fault earthquake preparation in Utah, a Colorado perspective.
- Bob Kirkham (GeoLogic Solutions)

9. 2021 meeting schedule:

Jan 21, March 18, May 20, July 15, Sept 16, and Nov 18.