

CEHMC September 2020 notes
September 17, 2020
Remote Zoom meeting

Attendees: Rob Jackson, Matt Morgan, Keith Porter, Robin McGuire, Ivan Wong, Michael Haughey, Allison Shumway, Chuck Mueller, Sean McGowan, Steve Board, Nicole O’Hearne, Mark Zellman, Kyren Bogolub (part time), Caleb Dunne

Approval of minutes from 16 July 2020 meeting motioned, seconded, and approved.

1. Presentation by Steve Board, State Hazard Mitigation Officer for the Colorado Office of Emergency Management

FEMA's 2020 Building Resilient Infrastructure and Communities (BRIC) program provides an opportunity for Colorado to obtain funding for mitigation projects. The application period for these mitigation and resilience projects opens on September 30, 2020. A project Notice of Interest (NOI) must be submitted in early October 2020. All BRIC construction projects must be constructed in accordance with the 2015 or 2018 versions of the International Building Code (IBC) and/or the International Residential Code (IRC) as may apply. The project’s Benefit Cost Ratio (BCR) must be supported by a solid Benefit Cost Analysis (BCA). Evaluation of projects at the national level will assign a higher point allocation to states that have a state-wide building code. (Colorado public schools do have a requirement to meet the requirements of the IBC as determined by the State Architect). Infrastructure projects will be given highest priority. Also, projects should mitigate one or more community lifelines in order to gain points. FEMA considers there to be seven different community lifeline groups:

- a. Safety and Security
- b. Food, Water, Shelter
- c. Health and Medical
- d. Energy - Power Grid, Fuel
- e. Communications
- f. Transportation
- g. Hazardous Material

Projects can be approved for up to \$50 million in Federal cost share per project. All projects require a 25% local match or a 10% match when a Sub-recipient qualifies¹.

BRIC is funded by a 6% set-aside from federal post-disaster grant funding as follows:

- a. State and Territory Allocation: Colorado has \$600,000 allocation.
- b. Tribal Set-Aside: A set-aside for Federally recognized Tribal Governments.
- c. National Mitigation Project Competition: For all eligible Applicants, the remainder of the funding will be available competitively for mitigation projects.

An example could be evaluation of hospitals via FEMA P-154 and subsequent engineering analyses and retrofits. [See item 2 of these notes. A Colorado focus on hospitals is deferred at this time.]

Discussion among the group focused especially on schools since this is already a CEHMC priority. A three-part Notice-of Interest proposal would include the following and would be coordinated through the office of the State Architect:

- a. A focus on improved design standards for school buildings (eliminating the use of Seismic Design Category A and addressing falling hazards)
- b. Evaluating existing vulnerable school buildings in the higher seismic hazard areas of the state (possibly utilizing volunteer engineers and others trained in the FEMA P-154 methodology).
- c. Facilitating and encouraging ShakeOut activities for schools.

Steve B. has a database on Colorado shelters which could be of assistance in prioritizing evaluations. The NOI would address at least two of the seven lifeline groups: safety and security; and food, water and

¹ Small impoverished communities: ≤3,000 people, average per capita annual income ≤ 80% national average

shelter. Steve will put together a draft by October 5. CEHMC will review, assist and continue to work toward implementation.

2. Critical Facilities Inventory Subcommittee

Discussion led by K. Porter and S. McGowan. This effort has been parked because of no support from Colorado hospitals or schools. Part of the disinterest is also likely the results of COVID-19 which is keeping hospitals busy through 2020 and likely into 2021. The effort to coordinate with hospitals is postponed until after the COVID-19 pandemic.

3. Update of the CGS/CEHMC website

The website can be accessed at <https://coloradogeologicalsurvey.org/hazards/eq/cehmc/>

The site remains a work in progress. Content can be sent to Matt who will coordinate revisions with the CGS website administrator.

4. 2019 Cheraw fault trenching update

No updates. M. Zellman suggests changing this topic title to a topic that would cover an update of any new relevant seismic hazard updates for the state. This would cover new/ongoing projects, new research, and other topics of interest.

5. Pre-Disaster Mitigation (PDM) plans – CGS proposal

This topic was superseded by the earlier discussion.

6. 2020 Shakeout Plans

Shakeout is October 15, 2020. Kyren is taking the lead on this work and is not logged-on into the meeting. K. Porter suggests we prepare educational information that we can provide to science teachers across the state that could include information for how to participate in shakeout. M. Morgan proposed the idea of including a Raspberry Shake seismometer (<https://raspberrysshake.org/>) as a reward for school participate.

7. Other Topics

- K. Porter announced that he will be offering Cal Gov Office of Emergency Services Safety Assessment Program training (ATC-20 post-earthquake and ATC-45 post-flood, wind, snow, landslide) on Sunday Feb 7 from 8am-4:30pm. \$20 covers postage of pocket manuals and donation to ASCE & EERI student chapters. Signup <https://sap-cu-feb2021.eventbrite.com>.
- FEMA will no longer receive NEHRP funding for Colorado. Funding will be diverted to higher risk states.
- M. Zellman will review the State / county hazard mitigation plans and create generalized bullet points for potential guidance for seismic hazard sections.

8. Date of next meeting:

- November 19, 2020

9. Future and possible future speakers:

- November meeting: Ivan Wong will present his paper on ground motion prediction models for Colorado
- Kathleen Wilmes (DHSEM) – Wasatch fault
- Bob Kirkham