

Hazard Mitigation Plan (HMP) Update
5th Steering Committee (SC) Meeting

June 5, 2013

Welcome and Introductions

SC vice chair, Hank Seemann called the meeting to order at 1:37 pm.

Group Introductions

Those in attendance introduced themselves and their affiliation to the group at large.

SC members and alternates in attendance were:

Bill Gillespie (SC) , City of Eureka	John Friedenbach (SC) , Humboldt Bay Municipal Water District
Daniel Larkin (SC) , County of Humboldt Office of Emergency Services	Karen Diemer (SC) , City of Arcata
Hank Seemann (SC) , County of Humboldt Public Works	Stephen Underwood (SC) , Fortuna Fire Protection District

SC members absent without an alternate present were:

Judith A. Warren, Humboldt State University Regional Training Institute—Community Disaster Preparedness (SC)

Alison Talbott (SC), PG&E

Desmond Cowan, (SC) Arcata Fire

Chris Kocera, (SC), Red Cross

Jody Brundin, Blue Lake Rancheria (SC)

Lou Iglesias (SC), Weott Community Services District

Tom Nix (SC), CAL FIRE

Jay Parrish (SC), City of Ferndale

Planning Partner, Public, and Agency Representatives in attendance were:

Cybelle Immitt, County of Humboldt Public Works

Pat Kaspari, GHD

Rob Flaner, Tetra Tech (present via phone-in)

Review Agenda

SC vice chair, Hank Seemann, went over the agenda items and meeting objectives.

Review/approve minutes

There was no discussion of the previous meeting's minutes. The motion to approve the minutes from the previous meeting was deferred to next meeting due to lack of a quorum.

Public Comment/Announcements

None

Risk Assessment Update

Rob Flaner updated everyone with where things stand including the extent and mapping. The HAZUS model is used for tsunami, earthquake, and flood modeling. Depth grids for flood modeling are currently being produced using HAZUS. Rob will have the depth grids completed by the next SC meeting.

Five earthquake maps, 2 probabilistic and 3 scenario maps are being created. By using probabilistic models in coordination with deterministic models a more accurate prediction analysis can be obtained. A prediction analysis needs to be conducted to apply for grants for the cost and benefit analysis. The

scenarios for the deterministic models were chosen from over 50 available scenarios using the following criteria: closest proximity and highest magnitude.

The major contributors to damage during earthquakes are: proximity to the source, intensity, magnitude, and soil type. The effect of an earthquake's duration was discussed and Rob explained that these models provide an arbitrary estimate because earthquakes do not mirror each other. Rob explained that the depth and duration of the earthquake do not contribute to damage as much as soil stability. Soil stability is the main factor that determines how a building will perform during an earthquake. Rob included that the 500 year event model is based on a Cascadia event. **Dan Larkin** expressed concern that the public needs to be notified that the estimates made by these models are rough estimates and have high error due to lack of data and assumptions made. **Karen Diemer** asked if it will be difficult to justify the damage prediction because the damage prediction is small with respect to larger cities. Rob assured Karen that each project is examined on its own cost and benefits analysis without comparison to other cities.

Rob reported that Tetra Tech is not going to be able to obtain the data needed to make the risk assessment as robust as had originally been hoped for because building stock data is not available from the County Assessor's Office. The 2008 census data will be used until 2010 data becomes available. Population growth was discussed and the meeting members determined that population growth since 2008 shouldn't affect models unless significant growth resides in an area predicted of significant hazard.

Rob will provide the first run results of the models in a loss estimate spreadsheet at the next SC meeting. The spreadsheet will include a table for each city detailing: damage, loss, debris, casualties, short-term shelter needs and long-term shelter needs of each probabilistic model. The spreadsheet will also include critical facility results detailing the percent damage and the percent functionality. There will be a total of 9 natural hazards of concern included in the spreadsheet. The flood model results will also be included in the spreadsheet detailing damage, loss, debris, short-term shelter, long-term shelter, number of vehicles damaged, and number of road closures for each probabilistic model. **Cybelle Immitt** suggested that Rob email the spreadsheet to everyone since the next SC meeting will not be held until September.

Preview Maps

Rob informed the meeting members that the posters will be displayed at the public meeting. Rob requested that everyone examine the posters and give feedback either during the meeting or via email after the meeting.

Rob mentioned that the fault map originally had all of the fault lines labeled but the fault line labels made the map busy and difficult to understand; so now instead only the fault zones will be labeled. The fault map displayed at the meeting was not the most updated map; it did not include fault line labels or fault zone labels.

Dan Larkin expressed concern that the dam break map is not an accurate portrayal of the most likely dam break scenario because the map displays the dam break scenario for sunny day conditions and Dan argued that winter day conditions are more likely. Dan claimed that the winter day conditions are more severe than sunny day conditions, so winter day conditions should be the condition examined in the map. Rob expressed that the probable maximum flood information used to make the dam break maps was acquired from the dam operators, who are uncomfortable with dam break data that make the dam a possible safety hazard. Rob continued to say that if a private study was conducted on the dam for winter conditions it could cost between \$200,000 and \$300,000. **Pat Kaspari** informed Rob that he can supply Rob with sunny and winter condition models for Matthews Dam and will email the GIS layers to Rob after the meeting.

Dan commented on the tsunami map, saying that the information seems acceptable but he thinks there is newer data that should be displayed. Dan said he would put Rob in contact with the people that have the

newest tsunami data. **Karen Diemer** said she liked that all of the maps are in the same format but wondered if the tsunami map should be more detailed in the areas most affected since the tsunami data is localized to a small area and by zooming in more detail could be communicated through the map. Rob agreed this would be a good idea.

Hank Seemann asked if the flood map could include the information that Blue Lake and Orick are still being studied.

Rob was also asked to include river names on the rainfall map.

The members of the meeting discussed the need for source citations on the maps. The members of the meeting wanted the source of the data along with the year the data was obtained. Rob said all of the sources will be cited in the report and will put the sources on the maps as well. Rob said he will do his best to supply dates in the citations on the maps as well.

Rob will email a link to where the revised maps can be viewed but the files must be opened within three days or the files will freeze and be unobtainable via the email. Rob hopes to have the maps revised and sent out within a week after the meeting.

What About Earthquake

No additional discussion.

The EAP

Cybelle Immitt informed the meeting that Paula Schultz is the main contact assisting the California Energy Commission with this project. Cybelle said that CEC's contract ends in July so the committee should give CEC as much work as possible before then. Cybelle expressed that the employees/consultants at CEC are very cooperative and willing to help as much as possible. The Hazard Mitigation Plan will include an energy assurance section in the Risk Assessment that Paula will be primarily responsible for completing with assistance from County staff and partners. The city and county annex will be changed to include the energy assurance plan. Rob will supply an example annex with the energy assurance plan incorporated for Ferndale by the end of the week. The energy assurance plan will be added to the annex instructions and project ideas will be added to Hazard Mitigation Plan catalog.

Karen Diemer mentioned that Redwood Coast Energy Authority might be a good resource for cities when creating their energy assurance plan. Karen also mentioned that Ferndale has completed their energy facilities energy assurance plan and it can be used as a template for other cities.

Public Outreach – Phase 1

Survey Update

Cybelle informed everyone that she has received over 700 completed surveys so far. Cybelle expressed concern that the surveys are not being completed by lower income and less educated citizens. Cybelle will write up some notes describing what surveys have been received so far.

Everyone brainstormed more ways to reach more Humboldt County residents with the survey. Cybelle mentioned that she wanted to ask for survey distribution help from HumCPR. Hank suggested distributing surveys at the Humboldt County Fair. Cybelle suggested handing out cards detailing survey and Hazard Mitigation web site links. Rob gave a price estimate of \$40/500 cards and the meeting decided that 1,000 cards should be adequate for the fair. Rob will send Cybelle a card to be reviewed and approved before printing 1,000. Cybelle suggested that Lori and Troy Nicollini can probably help by encouraging citizens to fill out the survey at the fair. Karen suggested bringing a computer to the fair so citizens could fill out the survey electronically at the table. **Bill Gillespie** said he will check with the fire prevention table to see

if they can supply flyers about the survey. Dan informed the meeting that the Redwood Fairgrounds fair will be held on June 20th-23rd.

Other survey distribution ideas included:

- **John Friedenbach** suggested that each city should send the survey to all of their city staff. Cybelle agreed this was a good idea.
- Hank suggested speaking directly to Red Cross for survey distribution help since Cybelle mentioned she has only spoken to them indirectly through steering committee meetings.

Public Meetings

The public meetings will be held on July 10th in Fortuna and July 11th in Arcata. Cybelle suggested the times of the meetings be 6pm -8pm, and everyone agreed these times should be satisfactory. Cybelle mentioned that the public meetings have received coverage in the Times Standard and the meeting members suggested more ways to advertise the public meetings:

- Rob suggested another press release and suggested the county send out a tweet about the public meeting on their twitter feed.
- Karen suggested advertising on Access Humboldt.
- General networking was suggested as well.

Cybelle promised to send the finished flyer in an email once completed. Cybelle mentioned that the Red Cross will be tabling at the public meeting along with two other organizations. Rob asked if the Shaky Ground organization would be at the public meeting with a table and Cybelle said she'd contact them and ask.

Miscellaneous Updates

- Rob informed everyone that the progress report is done. Everyone agreed that the progress report is done and doesn't need another review.
- Cybelle informed everyone that the Critical Facilities Inventory has not been altered since the April Steering Committee meeting.
- Pat said he will review the Critical Facilities Inventory database that Cybelle just emailed out to everyone to make sure it is the most current.
- Cybelle said she would incorporate the energy facilities component to the annex workshop template prior to the workshop.

Action Items for Next Meeting

Review/approve minutes

- The motion to approve the minutes from the previous meeting was deferred to next meeting due to lack of a quorum.

Risk Assessment Update

- Rob will have the flood maps, earthquake probabilistic and deterministic maps completed by the next SC meeting.
- Rob will email the loss matrix prior to the next SC meeting.

Preview Maps

- Rob requested that everyone examine the posters and give feedback either during the meeting or via email after the meeting.
- Pat will email Rob dam break inundation layers for Matthews Dam.
- Dan will put Rob in contact with the people that have the newest tsunami inundation layer data.
- Rob will include a zoom in insert on the localized tsunami area on the tsunami map.
- Rob will update the fault map with fault zone names.

- Rob will include on the flood map highlights around Blue Lake and Orick saying that area is still being studied.
- Rob will include river names on the rainfall map.
- Rob will include sources on every map, doing his best to include the year the source data is from.
- Rob will email a link to the revised maps for review prior to the public meetings but the files must be opened within three days or the files will freeze and be unobtainable via the link. Rob hopes to have the maps revised and sent out within a week after the meeting.

The EAP

- The energy profile section in the Risk Assessment of the Hazard Mitigation Plan is to be completed primarily by Paula and County staff.
- The city and county annex will be changed to include the energy assurance plan.
- The energy assurance plan will be added to the Hazard Mitigation Plan catalog and annex instructions.

Public Outreach – Phase 1

- Cybelle will ask for survey distribution help from HumCPR and other rural groups who can help get the word out to more remote populations of the county.
- Rob will send Cybelle a card with public meeting and survey information to be reviewed and approved before printing 1,000.
- Bill Gillespie will check with the fire prevention table to see if they can supply flyers/hand out info cards about the survey.
- Steering Committee members are asked to send the survey link out to all District/City staff and listserves.
- Cybelle will speak directly to Red Cross for survey distribution help.
- Cybelle will create another press release and flyer about the public meetings and send out a tweet about the public meeting on the County's twitter feed.
- Cybelle will create a Power Point slide advertising the public meetings and the survey on Access Humboldt.

Miscellaneous Updates

- Pat will review the Critical Facilities Inventory database that Cybelle emailed out to everyone to confirm that it is the latest.
- Cybelle will incorporate the energy facilities component to the annex workshop template and send out instructions and the template prior to the workshop.

Adjourn

The next meeting will be held on Wednesday, September 4th from 1:30pm to 3:30pm at the Humboldt Bay Fire Training Room, 3030 L St, Eureka.

The SC vice chair adjourned the meeting at 3:16pm.