

Appendix C: City of Sandy

Addendum to the Clackamas County Natural Hazards Mitigation Plan 2012 Amendments and Update

The Oregon Partnership for Disaster Resilience prepared this Appendix to the City of Sandy Addendum to the Clackamas County Natural Hazard Mitigation Plan (Sandy Addendum) as part of the 2011-12 update to the Clackamas County Natural Hazard Mitigation Plan. Upon local adoption, the appendix will become part of the Sandy Addendum and will ensure that the City of Sandy maintains FEMA Pre-Disaster Mitigation Program eligibility as well as compliance with the Clackamas County NHMP.

This appendix is organized according to the sections outlined in the Sandy Addendum. A description of each section is presented below with proposed changes and updates following each.

Section 1: Planning Process

The planning process section of the Sandy Addendum describes the activities used by the steering committee and community to develop the plan. Updates to the Planning Process section are as follows:

On Page 8, following the “Planning Process” subsection, insert the following language:

2012 Planning Process

The RARE Participant and Clackamas County Emergency Management developed and facilitated one plan update meeting with the Sandy Emergency Operations Center Group on June 12, 2012. Please see Appendix B for the meeting agenda and minutes.

2012 Committee members included:

- *Seth Atkinson, City of Sandy*
- *Scott Howland, Sandy Fire District*
- *Alice Lasher - Busch, Sandy Fire Public Education and Information Officer*
- *Jason McKinnon, Sandy Fire District*
- *Gary McQueen, Sandy Fire District*
- *Nolan O'Meara, OTSD 46*
- *Phil Schneider, Sandy Fire District*
- *Kim Yamashita, Sandy Police*

NHMP Update Meeting - June 12, 2012: The participant worked with the city lead to convene the steering committee and meet to review and update the city's Natural Hazards Mitigation Plan Addendum. Because the county is in the process of updating their NHMP, each of the cities were required to update their addendums, regardless of when their plan was last updated or developed. This is to ensure that the county and all of the cities are on the same timeline, and will now all update their NHMP's in 5 years. As part of this meeting, the steering committee reviewed the county's updated hazard assessment and made necessary changes to their hazard assessment, if necessary. The committee also reviewed their list of community assets to determine if any new additions or changes needed to be made. The committee also reported on progress made to the action items listed in the current NHMP. The committee reviewed the mitigation strategy and plan implementation and maintenance pieces and made changes if necessary.

On Page 11, Following the first paragraph of the "Convener" subsection insert the following:

The convener, or city lead designee, will be responsible for meeting annually with the county Hazard Mitigation Coordinator. This meeting will provide a chance for each of the city leads to meet together and discuss updates and progress with the Hazard Mitigation Coordinator. The convener will report back to the SEOC with information gathered. The Coordinator will be responsible for setting up the meeting, and providing the city leads with updates on new studies or potential funding opportunities for mitigation projects.

Section 2: Community Profile

The community profile section of the Sandy Addendum describes a variety of community characteristics specific to the City of Sandy. Based on new information compiled during the Clackamas County NHMP update process, updates to the Sandy Addendum include the following:

On Page 20, under the "Critical Infrastructure" subsection, edit the following bullet:

- ~~McKinnonn Airport~~
- McKinnon Airport

On Page 20, under the "Critical Infrastructure" subsection, add the following bullets:

- *Portland Water Intertie (Hudson Road)*

On Page 20, under the "Essential Facilities" subsection, remove the following bullets:

- ~~Bull Run School~~
- ~~Kelso Grade School~~
- ~~Firwood Medical Clinic~~

On Page 20, under the "Essential Facilities" subsection, edit the following bullet:

- ~~Cottrell Grade School~~
- Oregon Trail Primary Academy

On Page 21, under the “Essential Facilities” subsection, edit the following bullet:

- ~~Adventist Health Clinic~~
- Adventist Health Clinic and Urgent Care

On Page 21, under the “Vulnerable Populations” subsection, edit the following bullet:

- ~~Haroldon Apartments~~
- Harlon Garden Apartments

On Page 22, under the “Hazardous Materials” subsection, edit the following bullet:

- ~~US Metal~~
- US Metal Works Inc./US Meat & Restaurant Supply

On Page 23, under the “Hazardous Materials” subsection, add the following bullets:

- Fred Meyer
- Arco/AMPM
- Bi-Mart
- Olin Aquatic Center
- Camp Namanu
- Camp Howard

On Page 23, under the “Historical Resources Include” subsection, edit the following bullet:

- ~~Gerdes Store Post Office~~
- Gerdes Store and Sandy Post Office

On Page 23, under the “Historical Resources Include” subsection, edit the following bullet:

- ~~Evangelical Lutheran Church~~
- Evangelical Lutheran Mission

On Page 23, under the “Historical Resources Include” subsection, edit the following bullet:

- ~~Junker Home~~
- Casper Junker Home

On Page 23, under the “Historical Resources Include” subsection, edit the following bullet:

- ~~Junker Building~~
- Junker Business Building

On Page 23, under the “Historical Resources Include” subsection, edit the following bullet:

- ~~Meining Park~~
- The Meinig Park

On Page 23, under the “Historical Resources Include” subsection, add the following bullet :

- Hoffman’s Sandy Meat Market.

Section 3: Risk Assessment

The risk assessment section of the Sandy Addendum describes the types, causes, characteristics and relative risk posed by natural hazards on the City of Sandy. Based on new information compiled during the Clackamas County NHMP update process, updates to the Sandy Addendum include the following:

On Page 31, remove the section, “Severe Storms: Wind and Winter” and replace with:

~~Severe Storms: Wind and Winter~~

Severe Storms: Wind, Winter, and Extreme Heat

On Page 32, after Paragraph 4 of the “Severe Storms: Wind, Winter, and Extreme Heat” subsection, insert the following paragraph:

Extreme heat has a very low threat in Sandy. The SEOC estimates the probability for future extreme heat events is ‘low,’ meaning one incident is likely within a 75 to 100 year period. This estimate is in accordance with the county’s ‘low’ rating. The vulnerability estimate of future extreme heat events is ‘moderate,’ meaning between 1% and 10% of the population and assets would be affected in a major event. This estimate is in agreement with the county’s ‘moderate’ rating.

On Page 33, Paragraph 3 of the “Earthquake” subsection, delete the first two sentences of the paragraph and replace with the following:

~~The SEOC ranks both the probability of future earthquake events as ‘high,’ meaning one event is likely within a 10 to 35 year period. This estimate is the same as the county’s ‘high’ probability estimate.~~

The SEOC ranks both the probability of future earthquake events as ‘moderate,’ meaning one event is likely within a 35 to 75 year period. This estimate is the same as the county’s ‘moderate’ probability estimate.

On Page 44, Paragraph 4 of the “Volcano” subsection, delete the last sentence of the paragraph and replace with the following:

~~Both ratings are in agreement with Clackamas County’s probability and vulnerability estimates.~~

The probability rating is the same as the county's estimate of 'low' but the vulnerability rating is higher than the county's 'moderate' rating.

On Page 45, following the "Volcano" subsection, insert the following new "Drought" subsection:

Drought Profile

The Clackamas County Multi-Jurisdictional Natural Hazards Mitigation Plan adequately describes the causes and characteristics, history, location, extent and impacts of drought affecting the city of Sandy. Descriptions of the drought hazard can be found on pages DR-1 to DR-6 of the 2012 Clackamas County Natural Hazards Mitigation Plan update.

The probability of drought in Sandy was determined using scientific data, historical occurrences, and local knowledge. The SEOC estimates the probability of drought to be 'moderate' meaning one incident is likely within a 35 to 75 year period. This is the same as the county's 'moderate' rating. The SEOC estimates that Sandy has a 'low' vulnerability to drought conditions, meaning less than 1% of the population could be affected in a large-scale regional event. This is in agreement with the county's 'low' rating.

Drought Mitigation Activities

The existing drought hazard mitigation activities are conducted at the county, regional, state, and federal levels and are described in the Clackamas County Natural Hazards Mitigation Plan. As such, the information will not be repeated here.

Drought Mitigation Action Items

The city of Sandy does not believe that implementing drought-related mitigation activities will be cost-effective at this time. As such, the city has not identified drought mitigation action items. Sandy will partner with Clackamas County, however, on the implementation of mitigation strategies that benefit both jurisdictions.

Section 4: Action Items

The action items section of the Sandy Addendum describes detailed recommendations for activities that local departments, citizens and others could engage in to reduce risk. Based on new information compiled during the Clackamas County NHMP update process, updates to the Sandy Addendum include the following:

On Page 49, Paragraph 1 of the "Action Items" subsection, delete the last sentence of the paragraph and replace with the following:

~~*Full action item worksheets are located in Appendix A.*~~

The full action item worksheets with updated progress for 2012 are located in Appendix A of this addendum.

On Page 50, Paragraph 2 of the “Action Items” subsection, delete the first two sentences of the paragraph and replace with the following:

~~*Note: the City of Sandy does not believe that implementing volcano-related mitigation activities will be cost-effective at this time. As such, the city has not identified volcanic eruption mitigation action items.*~~

Note: the City of Sandy does not believe that implementing drought and volcanic-related mitigation activities will be cost-effective at this time. As such, the city has not identified drought or volcanic-eruption mitigation action items.