

Section 5

Mitigation Strategy Requirements

Mitigation Strategy---Requirement §201.6(c)(3):

The plan **shall** include a strategy that provides the jurisdiction's blueprint for reducing the potential losses identified in the risk assessment, based on existing authorities, policies, programs and resources, and its ability to expand on and improve these existing tools.

Local Hazard Mitigation Goals---Requirement §201.6(c)(3)(i):

[The hazard mitigation strategy **shall** include a] description of mitigation goals to reduce or avoid long-term vulnerabilities to the identified hazards.

- Does the plan include a description of mitigation goals to reduce or avoid long-term vulnerabilities to the identified hazards?

Identification and Analysis of Mitigation Measures---Requirement §201.6(c)(3) (ii):

[The mitigation strategy **shall** include a] section that identifies and analyzes a comprehensive range of specific mitigation actions and projects being considered to reduce the effects of each hazard, with particular emphasis on new and existing buildings and infrastructure.

- Does the plan identify a **comprehensive range** of specific mitigation actions and projects for each hazard?
- Do the identified range of mitigation actions and projects address reducing the effects of hazards on **new** buildings and infrastructure?
- Do the identified range of mitigation actions and projects address reducing the effects of hazards on **existing** buildings and infrastructure?

Implementation of Mitigation Measures---Requirement: §201.6(c)(3) (iii):

[The mitigation strategy section **shall** include] an action plan describing how the actions identified in section (c)(3)(ii) will be prioritized, implemented, and administered by the local jurisdiction. Prioritization **shall** include a special emphasis on the extent to which benefits are maximized according to a cost benefit review of the proposed projects and their associated costs.

- Does the mitigation strategy include how the actions are **prioritized**?
- Does the mitigation strategy address how the actions will be **implemented and administered**?
- Does the prioritization process include an emphasis on the use of **cost-benefit review**?

SECTION 5

REGION 5 HAZARD MITIGATION PLAN CENTRAL PIERCE FIRE & RESCUE MITIGATION STRATEGY SECTION

Table of Contents

MITIGATION STRATEGY REQUIREMENTS	1
TABLE OF CONTENTS	2
STARTUP MITIGATION MEASURES.....	4
EXISTING MITIGATION ACTIONS	4
PLAN MAINTENANCE	4
HAZARD MITIGATION FORUM	5
PIERCE COUNTY HAZARD MITIGATION FORUM	5
FIRE DISTRICT MITIGATION MEASURES	6
CAPABILITY IDENTIFICATION AND EVALUATION.....	6
ENVIRONMENTALLY SOUND FACILITIES AND APPARATUS.....	6
ACCESS BACKUP GENERATORS AND INSPECT STATION DISASTER SUPPLIES	7
MUTUAL AID AGREEMENTS	7
TO ESTABLISH A FULLY FUNCTIONAL STRUCTURALLY SOUND EOC.....	8
DEVELOP TYPE THREE OVERHEAD TEAMS	8
SAFELY DISPOSE OF HAZARDOUS WASTE.....	9
WILDLAND INTERFACE.....	9
PUBLIC EDUCATION MITIGATION MEASURES.....	10
BUSINESS GROUPS	10
TRAIN AND EQUIP LOCAL AND REGIONAL SPECIAL OPERATIONS TEAMS.....	10
ENDNOTES.....	11

Table 5-1 Central Pierce Fire District #6 Mitigation Strategy Matrix

Implementation Mechanism	Mitigation Measure (<i>Hazard(s)</i>) ¹	Lead Jurisdiction(s) / Department(s)	Timeline (years)	Plan Goals					
				Life and Property	Operations Continuity	Partnerships	Natural Resources	Preparedness	Sustainable Economy
Startup	1. Existing Mitigation Actions (<i>E,L,V,D,F,WUI,SW,MM</i>)	Central Pierce Fire & Rescue	Ongoing	✓	✓	✓	✓	✓	✓
	2. Plan Maintenance (<i>E,L,V,D,F,WUI,SW,MM</i>)	Central Pierce Fire & Rescue	Ongoing	✓	✓	✓	✓	✓	✓
HMF	1. Pierce County Hazard Mitigation Forum (<i>E,L,V,D,F,WUI,SW,MM</i>)	PCDEM, Central Pierce Fire & Rescue	Ongoing	✓	✓	✓	✓	✓	✓
Fire District	1. Capability Identification and Evaluation (<i>E,L,V,D,F,WUI,SW,MM</i>)	Central Pierce Fire & Rescue	1-2	N/A					
	2. Environmentally Sound Facilities and Apparatus (<i>E,V,F,SW,MM</i>)	Central Pierce Fire & Rescue	Ongoing		✓	✓	✓		
	3. Access Back-up Generators (<i>E,V,SW,MM</i>)	Central Pierce Fire & Rescue	Ongoing	✓	✓				
	4. Mutual Aid Agreements (<i>E,L,V,F,SW,WUI,MM</i>)	Central Pierce Fire & Rescue	Ongoing	✓		✓	✓		✓
	5. To Establish a Fully Functional Structurally Sound EOC (<i>E,L,V,D,F,SW,WUI,MM</i>)	Central Pierce Fire & Rescue	5	✓	✓		✓		✓
	6. Develop Type Three Overhead Teams (<i>E,L,V,D,F,SW,WUI,MM</i>)	Central Pierce Fire & Rescue	1-2	✓	✓	✓	✓	✓	✓
	7. Safely Dispose of Hazardous Waste (<i>E,F,SW,MM</i>)	Central Pierce Fire & Rescue	Ongoing			✓	✓		
	8. Wildland Interface (<i>WUI</i>)	Central Pierce Fire & Rescue	Ongoing	✓			✓		
Public Education	1. Business Groups (<i>E,L,V,D,F,SW,WUI</i>)	Central Pierce Fire & Rescue	1-2	✓		✓		✓	
	2. Train and Equip Local and Regional Special Operation Teams (<i>E,L,V,F,SW,MM</i>)	Pierce Co. DEM and Central Pierce Fire & Rescue	Ongoing	✓	✓				

Startup Mitigation Measures

Existing Mitigation Actions

Hazards: E, L, V, D, F, WUI, SW¹, MM²

Central Pierce Fire will continue to implement existing programs, policies, and regulations as identified in the Capability Identification Section of this Plan. This includes continuing those programs that are identified as technical and fiscal capabilities.

1. **Goal(s) Addressed** = Protect Life and Property; Promote A Sustainable Economy; Ensure Continuity of Operations; Increase Public Preparedness for Disasters; Preserve or Restore Natural Resources; Establish and Strengthen Partnerships for Implementation.
2. **Cost of Measure** = To Be Determined
3. **Funding Source and Situation** = Funding could be accomplished with local budgets or grants.
4. **Lead Jurisdiction(s)** = Central Pierce Fire & Rescue
5. **Timeline** = Ongoing
6. **Benefit** = Area-Wide
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Plan Maintenance

Hazards: E, L, V, D, F, WUI, SW¹, MM²

Central Pierce Fire will adopt those processes outlined in the Plan Maintenance Section of this Plan.

1. **Goal(s) Addressed** = Protect Life and Property; Promote A Sustainable Economy; Ensure Continuity of Operations; Increase Public Preparedness for Disasters; Preserve or Restore Natural Resources; Establish and Strengthen Partnerships for Implementation.
2. **Cost of Measure** = Minor
3. **Funding Source and Situation** = Funding could be obtained through local budget.
4. **Lead Jurisdiction(s)** = Central Pierce Fire & Rescue
5. **Timeline** = Ongoing
6. **Benefit** = Area-Wide
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Hazard Mitigation Forum

Pierce County Hazard Mitigation Forum

Hazards: E, L, V, D, F, WUI, SW¹, MM²

Central Pierce Fire will work in conjunction with the County through the Pierce County Hazard Mitigation Forum (HMF). The Forum will continue as a means of coordinating mitigation planning efforts among all jurisdictions within the County that have completed a mitigation plan. This ensures efficient use of resources and a more cooperative approach to making a disaster resistant county. The HMF meets annually; every October. This is addressed in the Plan Maintenance Section of this Plan.

1. **Goal(s) Addressed** = Protect Life and Property; Promote A Sustainable Economy; Ensure Continuity of Operations; Increase Public Preparedness for Disasters; Preserve or Restore Natural Resources; Establish and Strengthen Partnerships for Implementation.
2. **Cost of Measure** = Minor
3. **Funding Source and Situation** = Funding could be obtained through local budget.
4. **Lead Jurisdiction(s)** = PC DEM; Central Pierce Fire & Rescue
5. **Timeline** = Ongoing
6. **Benefit** = Regional
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Fire District Mitigation Measures

Capability Identification and Evaluation

Hazards: E, L, V, D, F, WUI, SW¹, MM²

Central Pierce Fire will develop a consistent and replicable system for evaluating capabilities. A capability evaluation involves measurable variables so that capabilities may eventually be tracked in conjunction with the implementation of all mitigation measures. This is a key component in evaluating the success of the overall mitigation strategy.

1. **Goal(s) Addressed** = N/A. Goals addressed are contingent upon the mitigation measures resulting from this priority.
2. **Cost of Measure** = Unknown
3. **Funding Source and Situation** = Funding could be obtained through local budget or grants.
4. **Lead Jurisdiction(s)** = Central Pierce Fire & Rescue
5. **Timeline** = Short-term
6. **Benefit** = Area-Wide
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Environmentally Sound Facilities and Apparatus

Hazards: E, V, F, SW¹, MM²

Using the most modern established models and practices, ensure our newly built and/or remodeled facilities are environmentally sound. Lead by a good example in regards to water and power conservation. Ensure our vehicles meet the current air pollution standards at a minimum.

1. **Goal(s) Addressed** = Ensure Continuity of Operations; Establish and Strengthen Partnerships for Implementation; Preserve or Restore Natural Resources.
2. **Cost of Measure** = Extra costs over an above normal equipment prices.
3. **Funding Source and Situation** = Funding could be obtained through local budget or grants and state or federal grants.
4. **Lead Jurisdiction(s)** = Central Pierce Fire & Rescue
5. **Timeline** = Long Term
6. **Benefit** = Participating Departments, citizens and community
7. **Life of Measure** = 25 years
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Access Backup Generators and Inspect Station Disaster Supplies

Hazards: E, V, SW¹, MM²

Through our maintenance shop develop a preventative maintenance schedule to service and maintain all station generators and replace small and worn out units on an annual basis. Also working with our private fuel vendor, establish after hours and emergency callout procedures for fuel in times of emergency. Establish partnerships with the local school districts to acquire fuel in times of emergency. We will also inspect and ensure adequate station disaster supplies.

1. **Goal(s) Addressed** = Protect Life and Property; Ensure Continuity of Operations.
2. **Cost of Measure** = No additional cost over amount budgeted annually
3. **Funding Source and Situation** = Funding could be obtained through local budget or grants.
4. **Lead Jurisdiction(s)** = Central Pierce Fire & Rescue
5. **Timeline** = Ongoing
6. **Benefit** = Fire District, Community and Regional Partners
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Mutual Aid Agreements

Hazards: E, L, V, F, SW, WUI¹, MM²

Continue to work with our neighboring departments in improving interoperability. Dropping our borders and dispatching the closest available unit regardless of jurisdiction.

1. **Goal(s) Addressed** = Protect Life and Property; Promote A Sustainable Economy; Establish and Strengthen Partnerships for Implementation; Preserve or Restore Natural Resources.
2. **Cost of Measure** = No Cost
3. **Funding Source and Situation** = Funding could be obtained through local Fire Department budgets
4. **Lead Jurisdiction(s)** = Central Pierce Fire & Rescue
5. **Timeline** = Ongoing
6. **Benefit** = Regional Partners, Fire District and community
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

To Establish a Fully Functional Structurally Sound EOC

Hazards: E, L, V, D, F, SW, WUI¹, MM²

To ensure through future funding (bond measures or grants) that our primary station and emergency operations center is structurally sound and is equipped with the most current and up to date equipment available.

1. **Goal(s) Addressed** = Protect Life and Property; Promote A Sustainable Economy; Ensure Continuity of Operations; Preserve or Restore Natural Resources.
2. **Cost of Measure** = Cost of structural upgrades and equipment
3. **Funding Source and Situation** = Funding could be obtained through local budget, grants or bonds.
4. **Lead Jurisdiction(s)** = Central Pierce Fire & Rescue
5. **Timeline** = Long-term
6. **Benefit** = Fire District and Citizens, Regional Partners
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Develop Type Three Overhead Teams

Hazards: E, L, V, D, F, SW, WUI¹, MM²

Train CPFR senior staff members to a level of a type three incident management team not only for our specific needs, but to assist in helping other departments and community partners (school districts) within the county. Train key department members in emergency operations at the National Fire Academy and through local classes.

1. **Goal(s) Addressed** = Protect Life and Property; Promote A Sustainable Economy; Ensure Continuity of Operations; Establish and Strengthen Partnerships for Implementation; Preserve or Restore Natural Resources; Increase Public Preparedness for Disasters.
2. **Cost of Measure** = Cost of classes and equipment
3. **Funding Source and Situation** = Funding could be obtained through local budget or grants.
4. **Lead Jurisdiction(s)** = Central Pierce Fire & Rescue
5. **Timeline** = Short-term
6. **Benefit** = Participating Departments and Citizens, Regional Partners
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Safely Dispose of Hazardous Waste

Hazards: E, F, SW¹, MM

Use current and up to date practices in regards to disposing and dealing with hazardous waste. Ensure all stations and district facilities receives and stores MSDS Data Sheets associated with supplies for their particular facility and equipment.

1. **Goal(s) Addressed** = Establish and Strengthen Partnerships for Implementation; Preserve or Restore Natural Resources.
2. **Cost of Measure** = TBD
3. **Funding Source and Situation** = Funding obtained through local budget
4. **Lead Jurisdiction(s)** = Central Pierce Fire & Rescue
5. **Timeline** = Ongoing
6. **Benefit** = Participating Departments and citizens
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Wildland Interface

Hazards: WUI¹

Through public education (department news letters, interactions with homeowner associations and civic groups) stress the importance and educate the public in urban interface areas and good defensive measures to take.

1. **Goal(s) Addressed** = Protect Life and Property; Preserve or Restore Natural Resources.
2. **Cost of Measure** = No cost, educate through existing news letters
3. **Funding Source and Situation** = Funding could be obtained through local budget or grants.
4. **Lead Jurisdiction(s)** = Central Pierce Fire & Rescue
5. **Timeline** = Ongoing
6. **Benefit** = Fire District and citizens
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal would benefit those affected, with no adverse reaction from others.

Public Education Mitigation Measures

Business Groups

Hazards: E, L, V, D, F, SW, WUI¹

Continue to develop partnerships with community groups, home owners, associations, etc. to educate our community on how to be self sufficient for the first ten days of a catastrophic event.

1. **Goal(s) Addressed** = Protect Life and Property; Establish and Strengthen Partnerships for Implementation; Increase Public Preparedness for Disasters.
2. **Cost of Measure** = No cost
3. **Funding Source and Situation** = Funding could be obtained through local budget or grants and state or federal grants.
4. **Lead Jurisdiction(s)** = Central Pierce Fire & Rescue and PC DEM
5. **Timeline** = Short-Term
6. **Benefit** = Community and Regional Partners
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Train and Equip Local and Regional Special Operations Teams

Hazards: E, L, V, F, SW¹, MM²

Continue to train and equip not only in the specialized disciplines of PSCORT but broaden the training to deal with any catastrophic event. Continue to work with neighboring teams to develop common practices and guidelines.

1. **Goal(s) Addressed** = Protect Life and Property; Ensure Continuity of Operations.
2. **Cost of Measure** = TBD
3. **Funding Source and Situation** = Funding could be obtained through local budget or grants and state or federal grants.
4. **Lead Jurisdiction(s)** =Pierce County DEM and Central Pierce Fire & Rescue
5. **Timeline** = Ongoing
6. **Benefit** = Participating Departments and citizens, Regional Partners
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Endnotes

¹ Hazard Codes:

Where necessary, the specific hazards addressed are noted as follows:

A:	Avalanche
E:	Earthquake
F:	Flood
D:	Drought
T:	Tsunami
V(L OR T):	Volcanic (lahar or tephra-specific)
SW:	Severe Storm (wind-specific)
L:	Landslide
WUI:	Wildland/Urban Interface Fire
MM:	Manmade to include terrorism
ALL:	All hazards, including some man made. Where only natural hazards are addressed, it is noted.

² While this Plan is strictly a *Natural* hazard mitigation plan, where a measure stems from a facility recommendation (Infrastructure Section) that deals specifically with terrorism, the mitigation strategy will use that analysis. Other measures, such as those that deal with multi-hazard community preparedness or recovery planning, mitigate man-made hazards and are noted as such. It is not the intent of this notation to imply that all measures were analyzed with regards to man-made hazards or that measures were identified with that in mind. Rather, the notation merely illustrates the potential on this template for the inclusion of man-made hazard analysis.