

## 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 PIERCE COUNTY FIRE DISTRICT #8 MITIGATION STRATEGY SECTION

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**Table 5-1 Pierce County Fire District #8 Mitigation Strategy Matrix**

Implementation Mechanism	Mitigation Measure ( <i>Hazard(s)</i> ) <sup>1</sup>	Lead Jurisdiction(s) / Department(s)	Timeline (years)	Plan Goals					
				Life and Property	Operations Continuity	Partnerships	Natural Resources	Preparedness	Sustainable Economy
<b>Startup</b>	1. Existing Mitigation Actions ( <i>E,L,V,D,F,WUI,SW,MM</i> )	Pierce County Fire District #8	Ongoing	✓	✓	✓	✓	✓	✓
	2. Plan Maintenance ( <i>E,L,V,D,F,WUI,SW,MM</i> )	Pierce County Fire District #8	Ongoing	✓	✓	✓	✓	✓	✓
<b>HMF</b>	1. Pierce County Hazard Mitigation Forum ( <i>E,L,V,D,F,WUI,SW,MM</i> )	PC DEM; Pierce County Fire District #8	Ongoing	✓	✓	✓	✓	✓	✓
<b>Fire District</b>	1. Capability Identification and Evaluation ( <i>E,L,V,D,F,WUI,SW,MM</i> )	Pierce County Fire District #8	1-2	N/A					
	2. Review, Update and Practice High Incident Response Level (HIRL) Procedures Annually ( <i>E,L,V,D,F,WUI,SW,MM</i> )	Pierce County Fire District #8	Ongoing	✓	✓	✓			
	3. Enforce Adopted Building and Fire Codes ( <i>E,L,V,D,F,WUI,SW,MM</i> )	Pierce County Fire District #8	Ongoing	✓		✓	✓		✓
	4. Review and Update as Necessary All Emergency Response Guidelines ( <i>E,L,V,D,F,WUI,SW,MM</i> )	Pierce County Fire District #8	Ongoing	✓	✓				
	5. Adopt and Enforce Codes that Provide Emergency Vehicle Access Roadways ( <i>E,L,V,D,F,WUI,SW,MM</i> )	Pierce County Fire District #8	Ongoing	✓	✓	✓			
	6. Work Closely with Other Public Agencies during Emergency Operations ( <i>E,L,V,D,F,WUI,SW,MM</i> )	Pierce County Fire District #8	Ongoing	✓	✓	✓			✓
	7. Support City of Edgewood Emergency Operations Center Activities ( <i>E,L,V,D,F,WUI,SW,MM</i> )	Pierce County Fire District #8	Ongoing	✓	✓	✓			
	8. Pursue Replacement of Existing Fire Station ( <i>E,L,V,D,F,WUI,SW,MM</i> )	Pierce County Fire District #8	5	✓	✓				✓
<b>Public Education</b>	1. Train all Department Members in HIRL Operations ( <i>E,L,V,D,F,WUI,SW,MM</i> )	Pierce County Fire District #8	Ongoing	✓	✓	✓			
	2. Continue to Support Schools and City Agencies with Emergency Preparedness Activities ( <i>E,L,V,D,F,WUI,SW,MM</i> )	Pierce County Fire District #8	Ongoing	✓		✓		✓	
	3. Make Disaster Preparedness Information Available at Local Events ( <i>E,L,V,D,F,WUI,SW,MM</i> )	Pierce County Fire District #8	Ongoing	✓		✓		✓	
	4. Assist Local Schools with Preparedness, Response and Recovery ( <i>E,L,V,D,F,WUI,SW,MM</i> )	Pierce County Fire District #8	Ongoing	✓		✓		✓	

# Startup Mitigation Measures

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## Existing Mitigation Actions

**Hazards:** E, L, V, D, F, WUI, SW<sup>1</sup>, MM<sup>2</sup>

PCFD 8 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** = TBD
3. **Funding Source and Situation** = Funding could be accomplished with local budgets or grants.
4. **Lead Jurisdiction(s)** = Pierce County Fire District #8
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.

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## Plan Maintenance

**Hazards:** E, L, V, D, F, WUI, SW<sup>1</sup>, MM<sup>2</sup>

PCFD 8 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** = TBD
3. **Funding Source and Situation** = Funding could be obtained through local budget.
4. **Lead Jurisdiction(s)** = Pierce County Fire District #8
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

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## Pierce County Hazard Mitigation Forum

**Hazards:** E, L, V, D, F, WUI, SW<sup>1</sup>, MM<sup>2</sup>

PCFD 8 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; Pierce County Fire District #8
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

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## Capability Identification and Evaluation

**Hazards:** E, L, V, D, F, WUI, SW<sup>1</sup>, MM<sup>2</sup>

PCFD 8 will develop a consistent and replicable system for evaluating the City's capabilities. A comprehensive evaluation will lead to specific policy recommendations to more effectively achieve disaster resistant communities. Further, 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 City's 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** = TBD
3. **Funding Source and Situation** = Funding could be obtained through local budget or grants.
4. **Lead Jurisdiction(s)** = Pierce County Fire District #8
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.

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## Review, Update and Practice High Incident Response Level (HIRL) Procedures Annually

**Hazards:** E, L, V, D, F, WUI, SW<sup>1</sup>, MM<sup>2</sup>

The PCFD 8 will review and update their High Incident Response Level procedures at least annually and they will exercise those procedures at every opportunity.

1. **Goal(s) Addressed** = Protect Life and Property; Ensure Continuity of Operations; Establish and Strengthen Partnerships for Implementation.
2. **Cost of Measure** = Staff time and equipment
3. **Funding Source and Situation** = Funding could be obtained through local budget.
4. **Lead Jurisdiction(s)** = Pierce County Fire District #8
5. **Timeline** = Ongoing
6. **Benefit** = Fire District and employees, City of Edgewood and citizens, and Regional Partners
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

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## Enforce Adopted Building and Fire Codes

**Hazards:** E, L, V, D, F, WUI, SW<sup>1</sup>, MM<sup>2</sup>

PCFD 8 will encourage adoption of best practice building and fire codes and will enforce all adopted codes within the jurisdiction.

1. **Goal(s) Addressed** = Protect Life and Property; Promote A Sustainable Economy; Preserve or Restore Natural Resources; Establish and Strengthen Partnerships for Implementation.
2. **Cost of Measure** = Staff time
3. **Funding Source and Situation** = Funding could be obtained through local budget.
4. **Lead Jurisdiction(s)** = Pierce County Fire District #8
5. **Timeline** = Ongoing
6. **Benefit** = Fire District and employees, City of Edgewood and citizens, and Regional Partners
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

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## Review and Update as Necessary All Emergency Response Guidelines

**Hazards:** E, L, V, D, F, WUI, SW<sup>1</sup>, MM<sup>2</sup>

PCFD 8 will review and update all necessary emergency response guidelines on a regular basis.

1. **Goal(s) Addressed** = Protect Life and Property; Ensure Continuity of Operations.
2. **Cost of Measure** = Staff time and materials
3. **Funding Source and Situation** = Funding could be obtained through local budgets or grants.
4. **Lead Jurisdiction(s)** = Pierce County Fire District #8
5. **Timeline** = Ongoing
6. **Benefit** = Fire district and employees, City of Edgewood and citizens, and Regional Partners
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

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## Adopt and Enforce Codes that Provide Emergency Vehicle Access Roadways

**Hazards:** E, L, V, D, F, SW, WUI<sup>1</sup>, MM<sup>2</sup>

PCFD 8 will adopt and enforce all codes that provide safe access and turn-around access for all types of emergency vehicles.

1. **Goal(s) Addressed** = Protect Life and Property; Ensure Continuity of Operations; Establish and Strengthen Partnerships for Implementation.
2. **Cost of Measure** = Staff time and materials
3. **Funding Source and Situation** = Funding could be obtained through local budget.
4. **Lead Jurisdiction(s)** = Pierce County Fire District #8
5. **Timeline** = Ongoing
6. **Benefit** = Fire District and employees, City of Edgewood and citizens, and other Regional Partners
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal would benefit those affected with no adverse reaction from others.

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## Work Closely with Other Public Agencies during Emergency Operations

**Hazards:** E, L, V, D, F, WUI, SW<sup>1</sup>, MM<sup>2</sup>

PCFD 8 will seek to increase collaboration and coordination among public agencies in the county. They will strive to encourage training and response efforts with all local and regional agencies.

1. **Goal(s) Addressed** = Protect Life and Property; Promote A Sustainable Economy; Ensure Continuity of Operations; Establish and Strengthen Partnerships for Implementation.
2. **Cost of Measure** = TBD
3. **Funding Source and Situation** = Funding could be obtained through local budget or grants.
4. **Lead Jurisdiction(s)** = Pierce County Fire District #8
5. **Timeline** = Ongoing
6. **Benefit** = Fire District and employees, City of Edgewood and citizens, and Regional Partners
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

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## Support City of Edgewood Emergency Operations Center Activities

**Hazards:** E, L, V, D, F, WUI, SW<sup>1</sup>, MM<sup>2</sup>

PCFD 8 will support the City of Edgewood Operations Center as necessary when activated in emergency or disaster situations or when invited to participate in area exercises.

1. **Goal(s) Addressed** = Protect Life and Property; Ensure Continuity of Operations; Establish and Strengthen Partnerships for Implementation.
2. **Cost of Measure** = Staff Time
3. **Funding Source and Situation** = Funding could be obtained through local budget.
4. **Lead Jurisdiction(s)** = Pierce County Fire District #8
5. **Timeline** = Ongoing
6. **Benefit** = Fire District employees, City of Edgewood and citizens, and Regional Partners
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

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## Pursue Replacement of Existing Fire Station

**Hazards:** E, L, V, D, F, WUI, SW<sup>1</sup>, MM<sup>2</sup>

PCFD 8 will pursue the replacement or at least seismic retrofit of the existing fire station in Edgewood due to the vulnerability from seismic activity.

1. **Goal(s) Addressed** = Protect Life and Property; Ensure Continuity of Operations; Promote a Sustainable Economy.
2. **Cost of Measure** = Cost of construction
3. **Funding Source and Situation** = Funding could be obtained through local budget or grants.
4. **Lead Jurisdiction(s)** = Pierce County Fire District #8
5. **Timeline** = Long-term
6. **Benefit** = First Responders, Residents, Businesses and Regional Partners
7. **Life of Measure** = 50 years
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

# Public Education Mitigation Measures

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## Train all Department Members in HIRL Operations

**Hazards:** E, L, V, D, F, WUI, SW<sup>1</sup>, MM<sup>2</sup>

PCFD 8 will train all department members who will participate in High Incident Response Level (HIRL) operations during regional disasters. This training will take place at least annually.

1. **Goal(s) Addressed** = Protect Life and Property; Ensure Continuity of Operations; Establish and Strengthen Partnerships for Implementation.
2. **Cost of Measure** = Staff time and materials/equipment
3. **Funding Source and Situation** = Funding could be obtained through local budget and grants.
4. **Lead Jurisdiction(s)** = Pierce County Fire District #8
5. **Timeline** = Ongoing
6. **Benefit** = Fire District and employees, City of Edgewood and citizens, and Regional Partners
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

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## Continue to Support Schools and City Agencies with Emergency Preparedness Activities

**Hazards:** E, L, V, D, F, WUI, SW<sup>1</sup>, MM<sup>2</sup>

PCFD 8 will continue to work with local school districts and other city agencies to provide information and education regarding emergency and disaster preparedness and what to expect in response and recovery operations.

1. **Goal(s) Addressed** = Protect Life and Property; Establish and Strengthen Partnerships for Implementation; Increase Public Preparedness for Disasters.
2. **Cost of Measure** = Staff time and materials
3. **Funding Source and Situation** = Funding could be obtained through local budget or grants.
4. **Lead Jurisdiction(s)** = Pierce County Fire District #8
5. **Timeline** = Ongoing
6. **Benefit** = School district staff and students, City of Edgewood and citizens, regional partners
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

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## Make Disaster Preparedness Information Available at Local Events

**Hazards:** E, L, V, D, F, WUI, SW<sup>1</sup>, MM<sup>2</sup>

PCFD 8 will continue to make disaster preparedness information available at the station as well as dispensing preparedness information at all District events and other local presentations as requested.

1. **Goal(s) Addressed** = Protect Life and Property; Establish and Strengthen Partnerships for Implementation; Increase Public Preparedness for Disasters.
2. **Cost of Measure** = Staff time and materials
3. **Funding Source and Situation** = Funding could be obtained through local budget or grants.
4. **Lead Jurisdiction(s)** = Pierce County Fire District #8
5. **Timeline** = Ongoing
6. **Benefit** = Fire District, City of Edgewood and citizens, and Regional Partners
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

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## Assist Local Schools with Preparedness, Response and Recovery

**Hazards:** E, L, V, D, F, WUI, SW<sup>1</sup>, MM<sup>2</sup>

PCFD 8 will continue to work with local school districts in preparedness, response and recovery information and activities. They will support them in performing evacuation drills, and other types of exercises as requested.

1. **Goal(s) Addressed** = Protect Life and Property; Establish and Strengthen Partnerships for Implementation; Increase Public Preparedness for Disasters.
2. **Cost of Measure** = Staff time and materials
3. **Funding Source and Situation** = Funding could be obtained through local budgets or grants.
4. **Lead Jurisdiction(s)** = Pierce County Fire District #8
5. **Timeline** = Ongoing
6. **Benefit** = School district staff and students, City of Edgewood and citizens, regional partners
7. **Life of Measure** = Retrofit-50 years
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

# Endnotes

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<sup>1</sup> Hazard Codes:

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

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

<sup>2</sup> 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.