

## 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 TOWN OF WILKESON 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
TOWN GOVERNMENT MITIGATION MEASURES.....	6
CAPABILITY IDENTIFICATION AND EVALUATION.....	6
SEISMIC ANALYSIS OF ALL CITY INFRASTRUCTURES .....	6
SEISMIC RETROFIT OF CRITICAL INFRASTRUCTURE .....	7
RENEW CONTRACT WITH BUCKLEY POLICE .....	7
ESTABLISH AGREEMENTS WITH LOCAL TOWN AND COMMUNITY BUSINESSES.....	8
REMOVAL OF HAZARDOUS MATERIALS.....	8
UNIVERSAL SEARCH TOOL FOR ORDINANCES .....	9
EMERGENCY RADIO COMMUNICATIONS WITH PIERCE COUNTY .....	9
SEISMIC ANALYSIS OF TRANSPORTATION INFRASTRUCTURE .....	10
TOWN WATER PROTECTION MEASURES.....	10
PUBLIC EDUCATION MITIGATION MEASURES.....	11
SUPPORT TRAINING AND EDUCATION OF OPERATOR II .....	11
YEARLY PUBLIC SAFETY MEETING .....	11
INITIATE "SAFE STREETS" IN WILKESON .....	12
ENDNOTES.....	13

**Table 5-1 Town of Wilkeson 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> )	Wilkeson - Administration	Ongoing	✓	✓	✓	✓	✓	✓
	2. Plan Maintenance ( <i>E,L,V,D,F,WUI,SW,MM</i> )	Wilkeson - Administration	Ongoing	✓	✓	✓	✓	✓	✓
<b>HMF</b>	1. Pierce County Hazard Mitigation Forum ( <i>E,L,V,D,F,WUI,SW,MM</i> )	PC DEM; Wilkeson - Administration	Ongoing	✓	✓	✓	✓	✓	✓
<b>Town Government</b>	1. Capability Identification and Evaluation ( <i>E,L,V,D,F,WUI,SW,MM</i> )	Wilkeson	1-2	N/A					
	2. Seismic Analysis of All City Infrastructures ( <i>E,SW</i> )	Wilkeson - Mayor	5	✓	✓				✓
	3. Seismic Retrofit of Critical Infrastructure ( <i>E,SW</i> )	Wilkeson - Mayor	5	✓	✓				✓
	4. Renew Contract with Buckley Police ( <i>E,L,V,D,F,SW,WUI,MM</i> )	Wilkeson - Mayor	5	✓	✓	✓			
	5. Establish Agreements with Local Town and Community Businesses ( <i>E,L,V,D,F,SW,WUI</i> )	Wilkeson - Mayor	1-2	✓	✓	✓		✓	✓
	6. Removal of Hazardous Materials – ( <i>MM</i> )	Wilkeson - Mayor	1-2	✓		✓	✓		
	7. Universal Search Tool for Ordinances ( <i>E,L,V,D,F,SW,WUI</i> )	Wilkeson	1-2		✓	✓			
	8. Emergency Radio Communications with Pierce County ( <i>E,L,V,D,F,SW,WUI</i> )	Wilkeson with Pierce County	1-2	✓	✓	✓			✓
	9. Seismic Analysis of Transportation Infrastructure ( <i>E,L,V,F,SW,WUI</i> )	WSDOT with Town of Wilkeson	5	✓	✓	✓			✓
	10. Town Water Protection Measures ( <i>MM</i> )	Wilkeson	5	✓	✓		✓		
<b>Public Education</b>	11. Support Training and Education of Operator II ( <i>E,L,V,D,F,SW,WUI,MM</i> )	Wilkeson - Mayor	1-2	✓	✓				
	12. Yearly Public Safety Meeting ( <i>E,L,V,D,F,SW,WUI</i> )	Wilkeson - Mayor	1-2	✓	✓	✓		✓	
	13. Initiate “Safe Streets” in Wilkeson ( <i>E,L,V,D,F,SW,WUI,MM</i> )	Wilkeson	1-2	✓	✓	✓		✓	

# Startup Mitigation Measures

---

## Existing Mitigation Actions

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

Wilkeson will continue to implement existing programs, policies, and regulations as identified in the Capability Identification Section of this Plan. This includes such actions as updating the Critical Area Regulations and any ensuing land use policies with best available science. It also includes continuing those programs that are identified as technical 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)** = Town of Wilkeson - Administration
5. **Timeline** = Ongoing
6. **Benefit** = Town-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, SW<sup>1</sup>, MM<sup>2</sup>

Wilkeson 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)** = Town of Wilkeson - Administration
5. **Timeline** = Ongoing
6. **Benefit** = Town-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, SW<sup>1</sup>, MM<sup>2</sup>

Wilkeson 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; Town of Wilkeson
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.

# Town Government Mitigation Measures

---

## Capability Identification and Evaluation

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

Wilkeson will develop a consistent and replicable system for evaluating the Town'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 Town'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)** = Town of Wilkeson
5. **Timeline** = Short-term
6. **Benefit** = Town-Wide
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

---

## Seismic Analysis of All City Infrastructures

**Hazards:** E, SW<sup>1</sup>

Perform a seismic analysis of all of the city infrastructure to determine viability such as Town Hall, Wilkeson water pump house, chlorination facility and the water reservoir, etc.

1. **Goal(s) Addressed** = Protect Life and Property; Ensure Continuity of Operations; Promote A Sustainable Economy.
2. **Cost of Measure** = \$30,000
3. **Funding Source and Situation** = Local budget or match, State or federal grant
4. **Lead Jurisdiction(s)** = Town of Wilkeson - Mayor
5. **Timeline** = Long-term
6. **Benefit** = Infrastructure specific, Town and surrounding community
7. **Life of Measure** = 5-10 years
8. **Community Reaction** = the proposal would be somewhat controversial.

---

## Seismic Retrofit of Critical Infrastructure

**Hazards:** E, SW<sup>1</sup>

Wilkeson will do a Seismic retrofit of the town infrastructure that is recommended to be upgraded.

1. **Goal(s) Addressed** = Protect Life and Property; Ensure Continuity of Operations; Promote a Sustainable Economy.
2. **Cost of Measure** = TBD
3. **Funding Source and Situation** = Local budget and grants, HMGP or PDM program.
4. **Lead Jurisdiction(s)** = Town of Wilkeson - Mayor
5. **Timeline** = Long-Term
6. **Benefit** = Infrastructure specific, town and surrounding community including Rainier Ranch.
7. **Life of Measure** = 25-50 years
8. **Community Reaction** = the proposal would be somewhat controversial.

---

## Renew Contract with Buckley Police

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

Buckley Police department provides Police service to Town of Wilkeson through a contract. Renew contract in 2010.

1. **Goal(s) Addressed** = Protect Life and Property; Ensure Continuity of Operations; Establish and Strengthen Partnerships for Implementation.
2. **Cost of Measure** = \$200,000 for three years.
3. **Funding Source and Situation** = Local budget
4. **Lead Jurisdiction(s)** = Town of Wilkeson - Mayor
5. **Timeline** = Long-Term
6. **Benefit** = Town of Wilkeson, regional partners
7. **Life of Measure** = three years
8. **Community Reaction** = the proposal would benefit those affected, with no adverse reaction from others.

---

## Establish Agreements with Local Town and Community Businesses.

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

To establish agreements with local town and other community businesses to promote disaster resilience.

1. **Goal(s) Addressed** = Protect Life and Property; Promote A Sustainable Economy; Ensure Continuity of Operations; Increase Public Preparedness for Disasters; Establish and Strengthen Partnerships for Implementation.
2. **Cost of Measure** = Minimal
3. **Funding Source and Situation** = Funding could be obtained through local budget.
4. **Lead Jurisdiction(s)** = Town of Wilkeson - Mayor
5. **Timeline** = Short-term
6. **Benefit** = Town of Wilkeson, regional businesses and surrounding communities.
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

---

## Removal of Hazardous Materials

**Hazards:** MM<sup>2</sup>

Remove hazardous materials from the Wilkeson Parking lot due to previous contamination from an old gas station.

1. **Goal(s) Addressed** = Protect Life and Property; Establish and Strengthen Partnerships for Implementation; Preserve or Restore Natural Resources.
2. **Cost of Measure** = \$65,000
3. **Funding Source and Situation** = Funding could be obtained through local match or Ecology Grant.
4. **Lead Jurisdiction(s)** = Town of Wilkeson - Mayor
5. **Timeline** = Short-term
6. **Benefit** = Town of Wilkeson Citizens
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal would benefit those affected, with no adverse reaction from others.

---

## Universal Search Tool for Ordinances

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

Making Ordinances more accessible and organized for use to support an all hazards program by using a universal search tool (\$16,000 for software).

1. **Goal(s) Addressed** = Ensure continuity of operations, Establish and strengthen partnerships for implementation.
2. **Cost of Measure** = Cost of software and implementation.
3. **Funding Source and Situation** = Funding could be obtained through local budget or grants and state or federal grants.
4. **Lead Jurisdiction(s)** =Town of Wilkeson
5. **Timeline** = Short-term
6. **Benefit** = Public Employees, Businesses, Citizens and regional partners
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal would benefit those affected, with no adverse reaction from others.

---

## Emergency Radio Communications with Pierce County

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

Research and purchase emergency communication devices for Town to include all hazard radios.

1. **Goal(s) Addressed** = Protect Life and Property; Ensure Continuity of Operations; Establish and Strengthen Partnerships for Implementation; Promote a Sustainable Economy.
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)** = Town of Wilkeson with Pierce County
5. **Timeline** = Short-term
6. **Benefit** = First Responders, Citizens and Regional Partners
7. **Life of Measure** = 5-7 years for equipment
8. **Community Reaction** = the proposal would benefit those affected, with no adverse reaction from others.

---

## Seismic Analysis of Transportation Infrastructure

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

Seismic analysis of WSDOT transportation infrastructure that the town depends upon at both ends of town to include bridges and roads.

1. **Goal(s) Addressed** = Protect Life and Property; Ensure Continuity of Operations; Promote A Sustainable Economy; Establish and Strengthen Partnerships for Implementation.
2. **Cost of Measure** = TBD
3. **Funding Source and Situation** = Funding could be obtained through local match or state and federal grants.
4. **Lead Jurisdiction(s)** = WSDOT with Town of Wilkeson
5. **Timeline** = Long-term
6. **Benefit** = Town of Wilkeson, surrounding communities and tourists using road.
7. **Life of Measure** = 25 years
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

---

## Town Water Protection Measures

**Hazards:** MM<sup>2</sup>

Implement security measures as necessary for town water supply. Measures could include fencing, security, locks and cameras.

1. **Goal(s) Addressed** = Protect Life and Property; Ensure Continuity of Operations; Preserve or Restore Natural Resources.
2. **Cost of Measure** = Materials or equipment
3. **Funding Source and Situation** = Funding could be obtained through local budget or grants and state or federal grants.
4. **Lead Jurisdiction(s)** = Town of Wilkeson
5. **Timeline** = Long-term
6. **Benefit** = Town, businesses, citizens and regional partners
7. **Life of Measure** = 25 years
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

# Public Education Mitigation Measures

---

## Support Training and Education of Operator II

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

The Town has hired an Operator I for the Waste Water treatment but must be an Operator II. The Town is supporting him financially for his studies to pass the requirements.

1. **Goal(s) Addressed** = Protect Life and Property; Ensure Continuity of Operations.
2. **Cost of Measure** = \$700/year so \$1,500 over a two year period.
3. **Funding Source and Situation** = local budget
4. **Lead Jurisdiction(s)** = Town of Wilkeson - Mayor
5. **Timeline** = Short - term
6. **Benefit** = Infrastructure protected and serviced, town and service area.
7. **Life of Measure** = 5 years
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

---

## Yearly Public Safety Meeting

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

Conduct a yearly Public Safety Meeting inviting East Pierce Fire, Buckley Police, and representatives from surrounding communities and other regional partners.

1. **Goal(s) Addressed** = Protect Life and Property; Ensure Continuity of Operations; Establish and Strengthen Partnerships for Implementation; Increase Public Preparedness for Disasters.
2. **Cost of Measure** = Time and materials
3. **Funding Source and Situation** = Funding could be obtained through local budget.
4. **Lead Jurisdiction(s)** = Town of Wilkeson - Mayor
5. **Timeline** = Short-term
6. **Benefit** = Town of Wilkeson, regional partners and neighboring communities.
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

---

## Initiate “Safe Streets” in Wilkeson

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

Initiate a “Safe Streets” program or working with County using PC-Net format for a community safety program in Wilkeson.

1. **Goal(s) Addressed** = Protect Life and Property; Ensure Continuity of Operations; Establish and Strengthen Partnerships for Implementation; Increase Public Preparedness for Disasters.
2. **Cost of Measure** = Time and materials
3. **Funding Source and Situation** = Funding could be obtained through local budget or grants and state or federal grants.
4. **Lead Jurisdiction(s)** = Town of Wilkeson
5. **Timeline** = Short-term
6. **Benefit** = Citizens, businesses of Wilkeson and regional partners
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

# Endnotes

---

<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.