

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 KEY PENINSULA FIRE DEPARTMENT MITIGATION STRATEGY SECTION

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Table 5-1 Key Peninsula Fire Department 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,T,V,D,F,WUI,SW,MM</i>)	Key Peninsula Fire Department	Ongoing	✓	✓	✓	✓	✓	✓
	2. Plan Maintenance (<i>E,L,T,V,D,F,WUI,SW,MM</i>)	Key Peninsula Fire Department	Ongoing	✓	✓	✓	✓	✓	✓
HMF	1. Pierce County Hazard Mitigation Forum (<i>E,L,T,V,D,F,WUI,SW,MM</i>)	PC DEM; Key Peninsula Fire Department	Ongoing	✓	✓	✓	✓	✓	✓
Fire District	1. Capability Identification and Evaluation (<i>E,L,T,V,D,F,WUI,SW,MM</i>)	Key Peninsula Fire Department	1-2	N/A					
	2. Establish a Stable Funding Mechanism (<i>E,L,T,V,D,F,WUI,SW,MM</i>)	Key Peninsula Fire Department	Ongoing	✓	✓		✓	✓	
	3. Interoperable Antenna Site (<i>E,L,T,V,D,F,WUI,SW,MM</i>)	Fire Comm and Key Peninsula Fire Department	5	✓	✓	✓			
	4. Partner with County to Extend 186 th Ave KPN (<i>E,L,T,V,D,F,WUI,SW,MM</i>)	Pierce County Public Works	5	✓	✓	✓	✓	✓	✓
	5. Strengthen Access Through Improvements to Route 302 (<i>E,L,T,V,D,F,WUI,SW,MM</i>)	WSDOT with Regional Partners	5	✓	✓	✓			✓
	6. Mitigate Wildland Fire Hazard Along Roadways (<i>WUI,SW</i>)	Pierce County Public Works and WSDOT	Ongoing	✓		✓	✓	✓	
Public Education	1. District 16, District 5 and Peninsula School District Educational Program (<i>E,L,T,V,D,F,WUI,SW,MM</i>)	Key Peninsula Fire Department	Ongoing	✓		✓		✓	

Startup Mitigation Measures

Existing Mitigation Actions

Hazards: E, L, T, V, D, F, WUI, SW¹, MM²

Key Peninsula 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** = TBD
3. **Funding Source and Situation** = Funding could be accomplished with local budgets or grants.
4. **Lead Jurisdiction(s)** = Key Peninsula Fire Department.
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, T, V, D, F, WUI, SW¹, MM²

Key Peninsula 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** = TBD
3. **Funding Source and Situation** = Funding could be obtained through local budget.
4. **Lead Jurisdiction(s)** = Key Peninsula Fire Department
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, T, V, D, F, WUI, SW¹, MM²

Key Peninsula 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; Provide/Ensure Continuity of Operations; Increase Public Awareness and Education/Preparedness for Disasters; Restore/Protect/Preserve the Environment; 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; Key Peninsula Fire Department
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, T, V, D, F, WUI, SW¹, MM²

Key Peninsula Fire will develop a consistent and replicable system for evaluating 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 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)** = Key Peninsula Fire Department
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.

Establish a Stable Funding Mechanism

Hazards: E, L, T, V, D, F, WUI, SW¹, MM²

Putting forth a levy lid-lift as first step and if it fails, will evaluate other measures.

1. **Goal(s) Addressed** = Protect Life and Property; Ensure Continuity of Operations; Preserve or Restore Natural Resources; Increase Public Preparedness for Disasters.
2. **Cost of Measure** = 1.5 million per year (12 persons) plus equipment, etc.
3. **Funding Source and Situation** = Funding could be obtained through local budget (property tax) and state or federal grants.
4. **Lead Jurisdiction(s)** = Key Peninsula Fire Department
5. **Timeline** = Ongoing
6. **Benefit** = Firefighters and Community, neighboring Districts: Gig Harbor, Mason and Kitsap
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal would be somewhat controversial.

Interoperable Antenna Site

Hazards: E, L, T, V, D, F, SW, WUI¹, MM²

Add an antenna site for Westside interoperability to improve deficiencies in communications.

1. **Goal(s) Addressed** = Protect Life and Property; Ensure Continuity of Operations; Establish and Strengthen Partnerships for Implementation.
2. **Cost of Measure** = \$150,000
3. **Funding Source and Situation** = Funding could be obtained through local budget or grants and state or federal grants.
4. **Lead Jurisdiction(s)** = Fire Communications and Key Peninsula Fire Department
5. **Timeline** = Long-term
6. **Benefit** = Citizens and first responders
7. **Life of Measure** = 50 years
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Partner with County to Extend 186th Avenue KPN

Hazards: E, L, T, V, D, F, SW, WUI¹, MM²

Partner with Pierce County roads to extend 186th Ave KPN to create a second route to the south end of the peninsula.

1. **Goal(s) Addressed** = Protect Life and Property; Promote A Sustainable Economy; Ensure Continuity of Operations; Preserve or Restore Natural Resources; Establish and Strengthen Partnerships for Implementation; Increase Public Preparedness for Disasters.
2. **Cost of Measure** = \$6.65 million for road improvements and extension.
3. **Funding Source and Situation** = Funding could be obtained through local budget and state or federal grants.
4. **Lead Jurisdiction(s)** = Pierce County Public Works
5. **Timeline** = Long-term
6. **Benefit** = Citizens in south end of peninsula and first responders
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal would be somewhat controversial.

Strengthen Access through Improvements to Route 302

Hazards: E, L, T, V, D, F, SW, WUI¹, MM²

Partner with WA State DOT to assure stable access to the peninsula by strengthening and maintaining highway 302 to the area. Also, it is important to provide access to services for those on the peninsula.

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 some matching funds and state or federal grants.
4. **Lead Jurisdiction(s)** = WSDOT with Regional Partners
5. **Timeline** = Long-Term
6. **Benefit** = Citizens of community, Public Services, businesses
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal would benefit those affected, with no adverse reaction from others.

Mitigate Wildland Fire Hazard along Roadways

Hazards: WUI¹, SW

Work with Pierce County Public Works to mitigate Wildland Fire hazards along the roadways. This is where fires start.

1. **Goal(s) Addressed** = Protect Life and Property; Establish and Strengthen Partnerships for Implementation; Preserve or Restore Natural Resources; Increase Public Preparedness for Disasters.
2. **Cost of Measure** = \$300,000-\$400,000 for year round crew.
3. **Funding Source and Situation** = Funding could be obtained through local budgets.
4. **Lead Jurisdiction(s)** = Pierce County Public Works and WSDOT
5. **Timeline** = Ongoing
6. **Benefit** = Citizens, first responders and natural environment
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

District 16, District 5 and Peninsula School District Educational Program

Hazards: E, L, T, V, D, F, SW, WUI¹, MM²

Provide education to children at elementary age with safety classes pertinent to the hazards in the community. Partner with Gig Harbor Fire and Peninsula School District.

1. **Goal(s) Addressed** = Protect Life and Property; Establish and Strengthen Partnerships for Implementation; Increase Public Preparedness for Disasters.
2. **Cost of Measure** = \$5,000-\$10,000 per year.
3. **Funding Source and Situation** = Funding could be obtained through local budget or grants and state and federal grants.
4. **Lead Jurisdiction(s)** = Key Peninsula Fire Department
5. **Timeline** = Ongoing
6. **Benefit** = Citizens, entire community, and first responders
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.