

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 SOUTH 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
POWER TO GO – JOINT PUBLIC/PRIVATE PROJECT	6
FACILITY REMAKE – JOINT VENTURE	7
SHAKE-IT-NOT.....	7
TOGETHERNESS.....	8
HUG-A-TREE	8
3 DAYS AWAY.....	9
WATTS UP	9
SEISMIC SIZE-UP.....	10
PUBLIC EDUCATION MITIGATION MEASURES.....	11
WILDFIRE WISDOM.....	11
SAFE KIDS	11
KEEPING THE BUSY IN OUR BUSINESS	12
ENDNOTES.....	13

Table 5-1 South Pierce Fire & Rescue 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>)	South Pierce Fire & Rescue	Ongoing	✓	✓	✓	✓	✓	✓
	2. Plan Maintenance (<i>E,L,V,D,F,WUI,SW,MM</i>)	South Pierce Fire & Rescue	Ongoing	✓	✓	✓	✓	✓	✓
HMF	1. Pierce County Hazard Mitigation Forum (<i>E,L,V,D,F,WUI,SW,MM</i>)	PC DEM; South Pierce Fire & Rescue	Ongoing	✓	✓	✓	✓	✓	✓
Fire District	1. Capability Identification and Evaluation (<i>E,L,V,D,F,WUI,SW,MM</i>)	South Pierce Fire & Rescue	1-2	N/A					
	2. Power to Go (<i>E,V,WUI,SW</i>)	South Pierce Fire & Rescue	5	✓	✓	✓			✓
	3. Facility Remake (<i>E,L,V,D,F,WUI,SW,MM</i>)	South Pierce Fire & Rescue	5	✓	✓	✓		✓	
	4. Shake-It-Not (<i>E,,SW</i>)	South Pierce Fire & Rescue	1-2	✓	✓				
	5. Togetherness (<i>E,L,V,D,F,WUI,SW,MM</i>)	South Pierce Fire & Rescue	1-2		✓	✓			
	6. Hug-A-Tree (<i>F,SW,MM</i>)	South Pierce Fire & Rescue	Ongoing				✓		✓
	7. 3 Days Away (<i>E,L,V,D,F,WUI,SW,MM</i>)	South Pierce Fire & Rescue	1-2	✓	✓			✓	
	8. Watts Up (<i>E,L,V,D,F,WUI,SW,MM</i>)	South Pierce Fire & Rescue	Ongoing	✓	✓				
	9. Seismic Size-Up (<i>E,SW</i>)	South Pierce Fire & Rescue	5	✓	✓				✓
Public Education	1. Wildfire Wisdom (<i>WUI</i>)	South Pierce Fire & Rescue	1-2	✓				✓	
	2. Safe Kids (<i>WUI,MM</i>)	South Pierce Fire & Rescue	Ongoing	✓		✓		✓	
	3. Keeping the Busy in our Business (<i>E,L,V,D,F,WUI,SW,MM</i>)	South Pierce Fire & Rescue	1-2	✓		✓		✓	✓

Startup Mitigation Measures

Existing Mitigation Actions

Hazards: E, L, V, D, F, WUI, SW¹, MM²

Fire District #15 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)** = South 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

Fire District #15 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)** = South 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

Fire District #15 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; South 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

Fire District #15 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)** = South 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.

Power to Go – Joint Public/Private Project

Hazards: E, V, SW, WUI¹

Purchase a large portable generator that can be used to power a local fuel station and convenience store. During power outages Fire District #15 will have fuel access. The store owner would be responsible to install a transfer switch.

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** = \$10,000-\$12,000
3. **Funding Source and Situation** = Funding could be obtained through local budgets or grants
4. **Lead Jurisdiction(s)** = South Pierce Fire & Rescue
5. **Timeline** = Long-term
6. **Benefit** = All local Fire, Emergency Service Agencies & the community
7. **Life of Measure** = 5-7 years
8. **Community Reaction** = the proposal would benefit those affected, with no adverse reaction from others.

Facility Remake – Joint Venture

Hazards: E, L, V, D, F, WUI, SW¹, MM²

Construct a new headquarter station in conjunction with our adjacent fire department.

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** = \$2.5 - \$3 million dollars
3. **Funding Source and Situation** = Funding could be obtained through local budget or grants and state or federal grants.
4. **Lead Jurisdiction(s)** = South Pierce Fire & Rescue
5. **Timeline** = Long-Term
6. **Benefit** = Staff, family members and community in South Pierce Fire District #15
7. **Life of Measure** = 40-50 years
8. **Community Reaction** = the proposal would be somewhat controversial.

Shake-It-Not

Hazards: E, SW¹

Budget for and implement a non-structural seismic retrofit of all stations in Fire District #15.

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 budgets or grants and state or federal grants.
4. **Lead Jurisdiction(s)** = South Pierce Fire & Rescue
5. **Timeline** = Short-Term
6. **Benefit** = South Pierce Fire & Rescue, Community and Regional Partners
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Togetherness

Hazards: E, L, V, D, F, WUI, SW¹, MM²

Continue consolidation efforts with Pierce County Fire District #17.

1. **Goal(s) Addressed** = 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)** = South Pierce Fire & Rescue
5. **Timeline** = Short-term
6. **Benefit** = Citizens of Fire District #15 and surrounding area
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal would be somewhat controversial.

Hug-A-Tree

Hazards: F, SW¹, MM²

Review all department policies and procedures for environmental compatibility.

1. **Goal(s) Addressed** = Restore/Protect/Preserve the Environment; Promote A Sustainable Economy.
2. **Cost of Measure** = TBD
3. **Funding Source and Situation** = Funding could be obtained through local budget or grants.
4. **Lead Jurisdiction(s)** = South Pierce Fire & Rescue
5. **Timeline** = Ongoing
6. **Benefit** = The environment within both fire districts, surrounding communities
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal would benefit those affected, with no adverse reaction from others.

3 Days Away

Hazards: E, L, V, D, F, SW, WUI¹, MM²

Encourage every member of Fire District #15 to be prepared for at least 72 hours of post incident existence without outside help.

1. **Goal(s) Addressed** = Protect Life and Property; Ensure Continuity of Operations; Increase Public Preparedness for Disasters.
2. **Cost of Measure** = No cost to district
3. **Funding Source and Situation** = N/A
4. **Lead Jurisdiction(s)** = South Pierce Fire & Rescue
5. **Timeline** = Short-term
6. **Benefit** = Members of the department and the people we serve
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Watts Up

Hazards: E, L, V, D, F, WUI, SW¹, MM²

Install emergency generators in all fire stations.

1. **Goal(s) Addressed** = Protect Life and Property; Ensure Continuity of Operations.
2. **Cost of Measure** = \$6,000-\$8,000 per station
3. **Funding Source and Situation** = Funding could be obtained through local budgets or grants.
4. **Lead Jurisdiction(s)** = South Pierce Fire & Rescue
5. **Timeline** = Ongoing
6. **Benefit** = South Pierce Fire & Rescue and the community, regional partners
7. **Life of Measure** = 25-30 years
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Seismic Size-Up

Hazards: E, SW¹

Evaluate all facilities owned by Fire District #15 for seismic stability and develop plans for repair and replacement.

1. **Goal(s) Addressed** = Protect Life and Property; Ensure Continuity of Operations; Promote a Sustainable Economy.
2. **Cost of Measure** = Engineering and reporting estimate \$22,000
3. **Funding Source and Situation** = No potential funding sources can be readily identified.
4. **Lead Jurisdiction(s)** = South Pierce Fire & Rescue
5. **Timeline** = Long-term
6. **Benefit** = South Pierce Fire & Rescue and our customers and community
7. **Life of Measure** = Review process will be less than one year
8. **Community Reaction** = the proposal would be affected, with no adverse reaction from others.

Public Education Mitigation Measures

Wildfire Wisdom

Hazards: WUI¹

Work within the growing Wildland urban interface communities within District #15 to educate citizens of the precautions that can be taken to protect homes from wildfire.

1. **Goal(s) Addressed** = Protect Life and Property; Increase Public Preparedness for Disasters.
2. **Cost of Measure** = approximately \$2,500 over the life of the measure.
3. **Funding Source and Situation** = Funding could be obtained through local budget or grants and state or federal grants.
4. **Lead Jurisdiction(s)** = South Pierce Fire & Rescue
5. **Timeline** = Short-term
6. **Benefit** = South Pierce Fire & Rescue, Community and regional partners
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Safe Kids

Hazards: WUI¹, MM²

Develop and deliver a new fire prevention and education program for all K-6 students in the fire district.

1. **Goal(s) Addressed** = Protect Life and Property; Establish and Strengthen Partnerships for Implementation; Increase Public Preparedness for Disasters.
2. **Cost of Measure** = < \$1,000 per year
3. **Funding Source and Situation** = Funding could be obtained through state or federal grants.
4. **Lead Jurisdiction(s)** = South Pierce Fire & Rescue
5. **Timeline** = Ongoing
6. **Benefit** = All K-6 Students and families in District #15
7. **Life of Measure** = 10 years
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Keeping the Busy in our Business

Hazards: E, L, V, D, F, SW, WUI¹, MM²

Develop and deliver an educational program for local businesses in post incident recovery.

1. **Goal(s) Addressed** = Protect Life and Property; Establish and Strengthen Partnerships for Implementation; Increase Public Preparedness for Disasters; Promote A Sustainable Economy.
2. **Cost of Measure** = Approximately \$2,500-\$3,000
3. **Funding Source and Situation** = Funding could be obtained through local state or federal grants.
4. **Lead Jurisdiction(s)** = South Pierce Fire & Rescue
5. **Timeline** = Short-term
6. **Benefit** = Local businesses and the community
7. **Life of Measure** = 2 years
8. **Community Reaction** = the proposal would 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.