

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 #23 MITIGATION STRATEGY SECTION

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Table 5-1 Pierce County Fire District #23 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>)	Pierce County Fire District #23	Ongoing	✓	✓	✓	✓	✓	✓
	2. Plan Maintenance (<i>E,L,V,D,F,WUI,SW,MM</i>)	Pierce County Fire District #23	Ongoing	✓	✓	✓	✓	✓	✓
HMF	1. Pierce County Hazard Mitigation Forum (<i>E,L,V,D,F,WUI,SW,MM</i>)	PC DEM; Pierce County Fire District #23	Ongoing	✓	✓	✓	✓	✓	✓
Fire District	1. Capability Identification and Evaluation (<i>E,L,V,D,F,WUI,SW,MM</i>)	Pierce County Fire District #23	1-2	N/A					
	2. District 23 Newsletter (<i>E,L,V,D,F,WUI,SW,MM</i>)	Pierce County Fire District #23	1-2	✓		✓		✓	
	3. Update Operations Plan (<i>E,L,V,D,F,WUI,SW,MM</i>)	Pierce County Fire District #23	1-2	✓	✓	✓	✓	✓	✓
	4. NOAA Weather Radio Project (<i>E,L,V,D,F,WUI,SW,MM</i>)	Pierce County Fire District #23	Ongoing	✓	✓			✓	
	5. Install GPS Units in all Fire Emergency Vehicles (<i>E,L,V,D,F,WUI,SW,MM</i>)	Pierce County Fire District #23	Ongoing	✓	✓				
	6. Develop a Volcano SOP for Mt. Rainier Incidents (<i>V</i>)	Pierce County DEM with Regional Partners	5	✓	✓	✓		✓	✓
	7. Non-Structural Retrofit of Fire Stations (<i>E,SW</i>)	Pierce County Fire District #23	1-2	✓	✓				
	8. New Station - (<i>E,L,V,D,F,WUI,SW,MM</i>)	Pierce County Fire District #23	1-2	✓	✓				
	9. Increase the Number of EMTs in the Department (<i>E,L,V,D,F,WUI,SW,MM</i>)	Pierce County Fire District #23	1-2	✓	✓				
	10. Partnership with Gas Stations to Ensure Supply (<i>E,V,F,WUI,SW</i>)	Pierce County Fire District #23 with Regional Partners	1-2	✓	✓	✓		✓	✓
	11. Fire District #23 COOP (<i>E,L,V,D,F,WUI,SW,MM</i>)	Pierce County Fire District #23	1-2	✓	✓				
	12. Preparedness Plans for Staff and Their Families (<i>E,L,V,D,F,WUI,SW,MM</i>)	Pierce County Fire District #23	1-2	✓	✓			✓	
	13. Logging Road Access for Lahar Evacuation (<i>V</i>)	Pierce County Fire District #23	1-2	✓		✓			
	14. Emergency Management Team (<i>E,L,V,D,F,WUI,SW,MM</i>)	Pierce County Fire District #23	1-2	✓	✓	✓	✓	✓	✓
	15. Comprehensive Emergency Management Plan (<i>E,L,V,D,F,WUI,SW,MM</i>)	Pierce County Fire District #23 and Emergency Mgmt Team	1-2	✓	✓	✓	✓	✓	✓
	16. Fire Station Generators (<i>E,L,V,D,F,WUI,SW,MM</i>)	Pierce County Fire District #23	1-2	✓	✓				✓
	17. Implement a Siren Warning System for the Valley (<i>E,L,V,F,WUI,SW,MM</i>)	Mt. Rainier Admin and Pierce County Fire District #23	5	✓	✓	✓		✓	
	18. Emergency Supply Program (<i>E,L,V,D,F,WUI,SW,MM</i>)	Pierce County Fire District #23	Ongoing	✓	✓	✓		✓	
	19. Emergency Vehicle Replacement (<i>E,L,V,F,WUI,SW,MM</i>)	Pierce County Fire District #23	1-2	✓	✓				

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
Public Education	1. Provide Safety Training to Elementary School Children (<i>E,L,V,D,F,WUI,SW,MM</i>)	Pierce County Fire District #23	Ongoing	✓		✓		✓	
	2. ATC-20 Training (<i>E,L,V,F,SW</i>)	Pierce County Fire District #23	1-2	✓	✓				
	3. WUI Defensible Space Training (<i>WUI</i>)	Dept. of Natural Resources	1-2	✓		✓		✓	✓
	4. Safety and Preparedness Fair (<i>E,L,V,D,F,WUI,SW,MM</i>)	Pierce County Fire District #23	1-2	✓		✓		✓	✓
	5. Nisqually Valley Business Continuity Education (<i>E,L,V,D,F,WUI,SW,MM</i>)	Pierce County Fire District #23	1-2	✓		✓		✓	✓
	6. First Responders Evacuation Training (<i>E,L,V,D,F,WUI,SW,MM</i>)	Pierce County Fire District #23	Ongoing	✓					

Startup Mitigation Measures

Existing Mitigation Actions

Hazards: E, L, V, D, F, WUI, SW¹, MM²

Pierce County 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)** = Pierce County Fire District #23
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

Pierce County 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; 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** = TBD
3. **Funding Source and Situation** = Funding could be obtained through local budget.
4. **Lead Jurisdiction(s)** = Pierce County Fire District #23
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

Pierce County 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; Pierce County Fire District #23
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

Pierce County Fire will develop a consistent and replicable system for evaluating the 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)** = Pierce County Fire District #23
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.

District 23 Newsletter

Hazards: E, L, V, D, F, SW, WUI¹, MM²

Develop an annual news letter to inform residence of emergency plans and ways of escaping the valley or sheltering in place.

1. **Goal(s) Addressed** = Protect Life and Property; Increase Public Preparedness for Disasters; Establish and Strengthen Partnerships for Implementation.
2. **Cost of Measure** = \$500 per year
3. **Funding Source and Situation** = Funding could be obtained through local budget.
4. **Lead Jurisdiction(s)** = Pierce County Fire District #23
5. **Timeline** = Short-term
6. **Benefit** = Citizens and First Responders within District #23
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Update Operations Plan

Hazards: E, L, V, D, F, SW, WUI¹, MM²

Review and update the Fire District's Operations Plan.

1. **Goal(s) Addressed** = Protect Life and Property; Ensure Continuity of Operations; Establish and Strengthen Partnerships for Implementation; Increase Public Preparedness for Disasters; Preserve or Restore Natural Resources; Promote a Sustainable Economy.
2. **Cost of Measure** = TBD
3. **Funding Source and Situation** = Funding could be obtained through local budget or grant and state or federal grants.
4. **Lead Jurisdiction(s)** = Pierce County Fire District #23
5. **Timeline** = Short-term
6. **Benefit** = District #23 Responders and citizens of Nisqually Valley
7. **Life of Measure** = 5 years
8. **Community Reaction** = the proposal would benefit those affected, with no adverse reaction from others.

NOAA Weather Radio Project

Hazards: E, L, V, D, F, SW, WUI¹, MM²

Ensure that all homes and businesses in the Valley have NOAA weather radios.

1. **Goal(s) Addressed** = Protect Life and Property; Ensure Continuity of Operations; Increase Public Preparedness for Disasters.
2. **Cost of Measure** = Nothing to the district, costs are covered by the grant.
3. **Funding Source and Situation** = Funding could be obtained through local budgets or grants and state or federal grants.
4. **Lead Jurisdiction(s)** = Pierce County Fire District #23
5. **Timeline** = Ongoing
6. **Benefit** = Citizens and Responders
7. **Life of Measure** = 20 years
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Install GPS Units in all Fire Emergency Vehicles

Hazards: E, L, V, D, F, SW, WUI, MM²

Purchase and install GPS units for 5 Fire District Response Units (E2311, E2312, A2332, A2333, and V2342).

1. **Goal(s) Addressed** = Protect Life and Property; Ensure Continuity of Operations.
2. **Cost of Measure** = \$2,000
3. **Funding Source and Situation** = Funding could be obtained through local budget or grants.
4. **Lead Jurisdiction(s)** = Pierce County Fire District #23
5. **Timeline** = Ongoing
6. **Benefit** = Citizens and First Responders
7. **Life of Measure** = 20 years
8. **Community Reaction** = the proposal would benefit those affected, with no adverse reaction from others.

Develop a Volcano SOP for Mt Rainier Incidents

Hazards: V

Pierce County Fire District #23 will work with Pierce County DEM, USGS and Mt. Rainier Administration to develop a Standard Operations Guidebook specific to volcano related incidents.

1. **Goal(s) Addressed** = Protect Life and Property; Establish and Strengthen Partnerships for Implementation; Ensure Continuity of Operations; Increase Public Preparedness for Disasters; 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)** = Pierce County Emergency Management with Regional Partners
5. **Timeline** = Long-term
6. **Benefit** = Citizens, Mt Rainier National Park staff and visitors, Fire Dept. Personnel
7. **Life of Measure** = 10 years
8. **Community Reaction** = the proposal would be endorsed by the entire community.

Non-Structural Retrofit of Fire Stations

Hazards: E, SW¹

A non-structural evaluation and retrofit program will be instituted in all of District #23 stations.

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.
4. **Lead Jurisdiction(s)** = Pierce County Fire District #23
5. **Timeline** = Short-Term
6. **Benefit** = Fire District Personnel and Citizens
7. **Life of Measure** = 5 years
8. **Community Reaction** = the proposal would benefit those affected, with no adverse reaction from others.

New Station

Hazards: E, L, V, D, F, SW, WUI¹, MM²

Open a new station near the west end of Adler Lake.

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, Timber Tax and state or federal grants.
4. **Lead Jurisdiction(s)** = Pierce County Fire District #23
5. **Timeline** = Short-term
6. **Benefit** = Fire District Personnel and Citizens
7. **Life of Measure** = 30 years
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Increase the Number of EMTs in the Department

Hazards: E, L, V, D, F, SW, WUI¹, MM²

Medical response in the area overseen by District #23 is limited, and there is a need for additional EMTs.

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.
4. **Lead Jurisdiction(s)** = Pierce County Fire District #23
5. **Timeline** = Short-term
6. **Benefit** = Citizens and First Responders in District #23
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Partnership with Gas Stations to Ensure Supply

Hazards: E, V, F, SW, WUI¹

Develop a partnership with one or more local service stations to ensure a supply of gasoline for the community during emergencies or disasters. This involves a joint project of wiring the stations with generator hookups and acquiring generators that can be used by the service stations to pump fuel when there are power outages.

1. **Goal(s) Addressed** = Protect Life and Property; Ensure Continuity of Operations; Establish and Strengthen Partnerships for Implementation; Promote a Sustainable Economy; Increase Public Preparedness for Disasters.
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 Fire District #23 with Regional Partners
5. **Timeline** = Short-term
6. **Benefit** = Fire District, Business Owners and local citizens
7. **Life of Measure** = 20 years
8. **Community Reaction** = the proposal would benefit those affected, with no adverse reaction from others.

Fire District #23 Continuity of Operations Plan (COOP)

Hazards: E, L, V, D, F, SW, WUI¹, MM²

Develop a Continuity of Operations Plan for Fire District #23.

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.
4. **Lead Jurisdiction(s)** = Pierce County Fire District #23
5. **Timeline** = Short-term
6. **Benefit** = Citizens and Fire District Employees
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Preparedness Plans for Staff and Their Families

Hazards: E, L, V, D, F, SW, WUI¹, MM²

Require that all FD #23 staff have a family preparedness plan and that each family have adequate personal emergency supplies for a minimum of three days (72 hours).

1. **Goal(s) Addressed** = Protect Life and Property; Ensure Continuity of Operations; Increase Public Preparedness for Disasters.
2. **Cost of Measure** = Minimal
3. **Funding Source and Situation** = Funding could be obtained through local budget or grants.
4. **Lead Jurisdiction(s)** = Pierce County Fire District #23
5. **Timeline** = Short-term
6. **Benefit** = Fire District Staff and Families, and citizens
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Logging Road Access for Lahar Evacuation

Hazards: V¹

This measure will work out 24 hour availability for a short time frame to open the log roads on the north side of the Nisqually River basin to allow immediate evacuation of citizens. Keys to the gates will need to be located so that a number of different personnel have the ability and responsibility of opening them when necessary.

1. **Goal(s) Addressed** = Protect Life and Property; Establish and Strengthen Partnerships for Implementation.
2. **Cost of Measure** = Minimal
3. **Funding Source and Situation** = Funding could be obtained through local budgets or grants.
4. **Lead Jurisdiction(s)** = Pierce County Fire District #23
5. **Timeline** = Short-term
6. **Benefit** = Citizens living in the valley, visitors and emergency staff
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Emergency Management Team

Hazards: E, L, V, D, F, SW, WUI¹, MM²

Form an emergency management team to work with the Fire District to develop plans and procedures to protect the citizens within the Nisqually Valley. It will be composed of representatives from appropriate groups in the valley. This may include representatives from the Fire District, schools, PCNET, businesses, etc...

1. **Goal(s) Addressed** = Protect Life and Property; Ensure Continuity of Operations; Establish and Strengthen Partnerships for Implementation; Increase Public Preparedness for Disasters; Preserve or Restore Natural Resources; Promote a Sustainable Economy.
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 #23
5. **Timeline** = Short-term
6. **Benefit** = Fire District, Citizens and businesses throughout the valley
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal would benefit those affected, with no adverse reaction from others.

Comprehensive Emergency Management Plan

Hazards: E, L, V, D, F, SW, WUI¹, MM²

Develop a Comprehensive Emergency Management Plan (CEMP) for District #23.

1. **Goal(s) Addressed** = Protect Life and Property; Ensure Continuity of Operations; Establish and Strengthen Partnerships for Implementation; Preserve or Restore Natural Resources; Increase Public Preparedness for Disasters; 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)** = Pierce County Fire District #23 assisted by the Emergency Management Team
5. **Timeline** = Short-term
6. **Benefit** = Fire District, Citizens in the valley and neighboring jurisdictions
7. **Life of Measure** = 5 years
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Fire Station Generators

Hazards: E, V, F, SW, WUI¹, MM²

Install connectors and generators in all fire stations to act as power backup during power outages, emergencies and disasters.

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** = Funding could be obtained through local budget or grants and state or federal grants.
4. **Lead Jurisdiction(s)** = Pierce County Fire District #23
5. **Timeline** = Short-term
6. **Benefit** = Fire District Personnel, Citizens in the valley
7. **Life of Measure** = 30 years
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Implement a Siren Warning System for the Valley

Hazards: E, L, V, F, SW, WUI¹, MM²

In conjunction with Mt. Rainier Administration develop and implement an all hazard siren warning system within the Nisqually Valley.

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** = TBD
3. **Funding Source and Situation** = Funding could be obtained through local budget or grants and state or federal grants.
4. **Lead Jurisdiction(s)** = Mt Rainier Administration and Pierce County Fire District #23
5. **Timeline** = Long-term
6. **Benefit** = Citizens and First Responders in the Valley
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Emergency Supply Program

Hazards: E, L, V, D, F, SW, WUI¹, MM²

Develop a joint program with DEM and the American Red Cross to supply, including restocking, emergency shelters and storage sites within the Nisqually Valley.

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** = TBD
3. **Funding Source and Situation** = Funding could be obtained through local budget or grants.
4. **Lead Jurisdiction(s)** = Pierce County Fire District #23
5. **Timeline** = Ongoing
6. **Benefit** = Citizens, visitors and First Responders
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Emergency Vehicle Replacement

Hazards: E, L, V, F, SW, WUI¹, MM²

Develop a plan to budget for long-term vehicle replacement.

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.
4. **Lead Jurisdiction(s)** = Pierce County Fire District #23
5. **Timeline** = Short-term
6. **Benefit** = Fire District Personnel, Citizens in the valley
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Public Education Mitigation Measures

Provide Safety Training to Elementary School Children

Hazards: E, L, V, D, F, SW, WUI¹, MM²

Work with the school system to educate the elementary age school children in the Nisqually Valley to the hazards in their community and how they are to respond to emergencies.

1. **Goal(s) Addressed** = Protect Life and Property; Increase Public Preparedness for Disasters; Establish and Strengthen Partnerships for Implementation.
2. **Cost of Measure** = \$600 per year
3. **Funding Source and Situation** = Funding could be obtained through local budget and grants.
4. **Lead Jurisdiction(s)** = Pierce County Fire District #23
5. **Timeline** = Ongoing
6. **Benefit** = Children, Parents, Teachers, Fire District Personnel
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

ATC-20 Training

Hazards: E, L, V, F, SW¹

Have two or more staff of the Fire District trained in ATC-20.

1. **Goal(s) Addressed** = Protect Life and Property; Ensure Continuity of Operations.
2. **Cost of Measure** = \$50 per person
3. **Funding Source and Situation** = Funding could be obtained through local budget or grants.
4. **Lead Jurisdiction(s)** = Pierce County Fire District #23
5. **Timeline** = Short-term
6. **Benefit** = Fire District Responders, the Public
7. **Life of Measure** = 5 years
8. **Community Reaction** = the proposal would benefit those affected, with no adverse reaction from others.

WUI Defensible Space Training

Hazards: WUI¹

Work with WA State Dept of Natural Resources to educate people on defensible space from Wildland fire.

1. **Goal(s) Addressed** = Protect Life and Property; Promote A Sustainable Economy; Establish and Strengthen Partnerships for Implementation; Increase Public Preparedness for Disasters.
2. **Cost of Measure** = TBD
3. **Funding Source and Situation** = Funding could be obtained through local budget or grants.
4. **Lead Jurisdiction(s)** = Dept of Natural Resources
5. **Timeline** = Short-term
6. **Benefit** = Citizens and First Responders
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Safety and Preparedness Fair

Hazards: E, L, V, D, F, SW, WUI¹, MM²

Improve citizen's knowledge of emergency preparedness.

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** = TBD - minimal
3. **Funding Source and Situation** = Funding could be obtained through local budget or grants.
4. **Lead Jurisdiction(s)** = Pierce County Fire District #23
5. **Timeline** = Short-term
6. **Benefit** = Citizens and First Responders in District #23
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Nisqually Valley Business Continuity Education

Hazards: E, L, V, D, F, SW, WUI¹, MM²

Meet with and give presentations to business leaders and members of the business community to educate them on the hazards threatening the community, individual, family and business preparedness to increase business resilience for emergencies.

1. **Goal(s) Addressed** = Protect Life and Property; Promote A Sustainable Economy; Establish and Strengthen Partnerships for Implementation; Increase Public Preparedness for Disasters.
2. **Cost of Measure** = TBD
3. **Funding Source and Situation** = Funding could be obtained through local budgets or grants.
4. **Lead Jurisdiction(s)** = Pierce County Fire District #23
5. **Timeline** = Short-term
6. **Benefit** = Community, Businesses, visitors and Fire District
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal would benefit those affected, with no adverse reaction from others.

First Responders Evacuation Training

Hazards: E, L, V, D, F, SW, WUI¹, MM²

Train and exercise first responders in the Nisqually Valley on evacuation of the valley for different emergencies.

1. **Goal(s) Addressed** = Protect Life and Property.
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 #23
5. **Timeline** = Ongoing
6. **Benefit** = Citizens and Fire District Staff
7. **Life of Measure** = Perpetual
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.