

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 #13 MITIGATION STRATEGY SECTION

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Table 5-1 Browns Point Fire District Mitigation Strategy Matrix

| Implementation Mechanism | Mitigation Measure (<i>Hazard(s)</i>) ¹ | Lead Jurisdiction(s) / Department(s) | Timeline (years) | Plan Goals | | | | | |
|--------------------------|---|--|------------------|-------------------|------------|------------|--------------|-------------------|--------------|
| | | | | Life and Property | Continuity | Operations | Partnerships | Natural Resources | Preparedness |
| Startup | 1. Existing Mitigation Actions (<i>E,L,T,V,D,F,SW,WUI,MM</i>) | PC Fire District #13 | Ongoing | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | 2. Plan Maintenance (<i>E,L,T,V,D,F,SW,WUI,MM</i>) | PC Fire District #13 | Ongoing | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| HMF | 1. Pierce County Hazard Mitigation Forum (<i>E,L,T,V,D,F,SW,WUI,MM</i>) | PC DEM; PC Fire District #13 | Ongoing | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Fire District | 1. Capability Identification and Evaluation (<i>E,L,T,V,D,F,SW,WUI,MM</i>) | PC Fire District #13 | 1-2 | N/A | | | | | |
| | 2. Develop and Implement Auxiliary Power Plan for District Infrastructure (<i>E,L,T,V,D,F,SW,WUI,MM</i>) | PC Fire District #13 | 5 | ✓ | ✓ | ✓ | | | ✓ |
| | 3. Conduct Seismic Analysis of District Infrastructure (<i>E,SW</i>) | PC Fire District #13 | 5 | ✓ | ✓ | | | | ✓ |
| | 4. Conduct a Non-Structural Seismic Retrofit of Fire District Owned Infrastructure (<i>E,SW</i>) | PC Fire District #13 | 5 | ✓ | ✓ | | | | ✓ |
| | 5. Develop Emergency Planning Transportation Overlays (<i>E,L,T,V,D,F,SW,WUI,MM</i>) | PC Fire District #13 and Regional Partners | 1-2 | ✓ | ✓ | ✓ | | | |
| | 6. Develop a Continuity of Operations Plan for the Fire District (<i>E,L,T,V,D,F,SW,WUI,MM</i>) | PC Fire District #13 | 5 | ✓ | ✓ | ✓ | | ✓ | ✓ |
| | 7. Conduct Annual Review and Update of Emergency Response Guidelines (<i>E,L,T,V,D,F,SW,WUI,MM</i>) | PC Fire District #13 | 1-2 | ✓ | ✓ | ✓ | ✓ | ✓ | |
| | 8. Annual Review, Update, and Train for High Incident Response Level (<i>E,L,T,V,D,F,SW,WUI,MM</i>) | PC Fire District #13 | Ongoing | ✓ | ✓ | ✓ | | ✓ | |
| | 9. Assist County in Development and Adoption of Building, Fire, and Land Use Codes (<i>E,L,T,V,D,F,SW,WUI,MM</i>) | PC Fire District #13 and Pierce County | Ongoing | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | 10. Strengthen Regional Partnerships (<i>E,L,T,V,D,F,SW,WUI,MM</i>) | PC Fire District #13 | Ongoing | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | 11. Provide Pre-Fire Planning to District Residential and Commercial Properties (<i>E,L,T,V,D,F,SW,WUI,MM</i>) | PC Fire District #13 | 1-2 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Public Education | 1. Conduct Annual Disaster Training (<i>E,L,T,V,D,F,SW,WUI,MM</i>) | PC Fire District #13 | Ongoing | ✓ | ✓ | ✓ | | ✓ | |
| | 2. Develop and Implement a Community All-Hazard Awareness Campaign (<i>E,L,T,V,D,F,SW,WUI,MM</i>) | PC Fire District #13 | 5 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | 3. Assist Businesses to Prepare, Respond, and Recover from Emergencies and Disasters (<i>E,L,T,V,D,F,SW,WUI,MM</i>) | PC Fire District #13 | 1-2 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

Startup Mitigation Measures

Existing Mitigation Actions

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

The Fire District 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 #13
5. **Timeline** = Ongoing
6. **Benefit** = Fire District-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, SW¹, WUI, MM²

The Fire District 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 #13
5. **Timeline** = Ongoing
6. **Benefit** = Fire District-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, SW¹, WUI, MM²

The Fire District 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 #13
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, SW¹, WUI, MM²

The Fire District 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)** = Pierce County Fire District #13
5. **Timeline** = Short-term
6. **Benefit** = Fire District-Wide
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Develop and Implement Auxiliary Power Plan for District Infrastructure

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

The Fire District will assess what District owned and reliance infrastructure should have auxiliary power. Once the assessment is complete, the District will begin by implementing auxiliary power retrofits to the highest priority infrastructure. This may be in the form of pre-wiring infrastructure to have generator power available for a portion of a facility and to identify a generator for that facility. The District may look at a policy that requires future infrastructure to be pre-wired for essential services.

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 state or federal grants.
4. **Lead Jurisdiction(s)** = Pierce County Fire District #13
5. **Timeline** = Long-term
6. **Benefit** = Fire District-Wide
7. **Life of Measure** = Varies
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Conduct Seismic Analysis of Fire District Owned Infrastructure

Hazards: E, SW¹

The Fire District will conduct a seismic analysis of District owned infrastructure and determine if the infrastructure should be retrofitted. Once the findings of the analysis are reviewed, the District will determine if structural seismic retrofits are beneficial.

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.
4. **Lead Jurisdiction(s)** = Pierce County Fire District #13
5. **Timeline** = Long-term
6. **Benefit** = Fire District-Wide
7. **Life of Measure** = Varies
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Conduct a Non-structural Seismic Retrofit of Fire District Infrastructure

Hazards: E, SW¹

The Fire District will conduct a non-structural seismic retrofit of the stations and other owned infrastructure. This will be accomplished through the following: an assessment will be done throughout the stations, materials will be purchased to conduct the retrofit, and materials will be installed to complete the retrofit. This will make the buildings safer for staff and visitors.

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.
4. **Lead Jurisdiction(s)** = Pierce County Fire District #13
5. **Timeline** = Long-Term
6. **Benefit** = Infrastructure Specific, Fire District-Wide
7. **Life of Measure** = 20 years
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Develop Emergency Planning Transportation Overlays

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

The Fire District will identify various emergency transportation routes throughout the District and map them for planning purposes. Due to the heavy reliance on other jurisdictions for services, this measure will involve input from Pierce County, the Utility Providers, local cities, the local District, the State, and the Fire District to name a few. The routes could include: snow clearing, valley evacuation routes, etc. This measure will build on the Regional Evacuation Plans that are being developed with input from the District.

1. **Goal(s) Addressed** = Protect Life and Property; 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.
4. **Lead Jurisdiction(s)** = Pierce County Fire District #13 with Regional Partners
5. **Timeline** = Short-Term
6. **Benefit** = Fire District-Wide, Regional Partners
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Develop a Continuity of Operations Plan for the Fire District

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

The Fire District will develop and maintain a Continuity of Operations Plan (COOP).

The purpose of this Plan will be to provide guidance for the protection of the Chapter's officials and documents with or without warning of a wide range of potential emergencies, while outlining the Chapter's viable and executable contingency plans (to be able to provide essential functions to customers from a different location, due to the primary facility becoming unusable for long or short periods of time).

1. **Goal(s) Addressed** = Protect Life and Property; Ensure Continuity of Operations; Promote A Sustainable Economy; Increase Public Preparedness for Disasters; Establish and Strengthen Partnerships for Implementation.
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 #13
5. **Timeline** = Long-term
6. **Benefit** = Fire District-Wide
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Conduct Annual Review and Update of Emergency Response Guidelines

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

The Fire District will conduct an annual review and necessary updates of the District Emergency Response Guidelines. The Guidelines will consider the impacts to the environment during emergency operations and implementing controls if needed to protect the environment.

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.
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 #13
5. **Timeline** = Short-term
6. **Benefit** = Fire District-Wide
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Annual Review, Update, and Train for High Incident Response Level

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

The Fire District will continue its annual reviewing, updating, and training for High Incident Response Level (HIRL) procedures.

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.
4. **Lead Jurisdiction(s)** = Pierce County Fire District #13
5. **Timeline** = Ongoing
6. **Benefit** = Fire District-Wide
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Assist Pierce County in Development and Adoption of Building, Fire, and Land Use Codes

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

The Fire District will assist Pierce County in the process of development and adoption of Building, Fire, and Land Use Codes. The District lacks the authority with regards to enforcing these codes, though these codes affect the operations of the District and many of the hazards the District is vulnerable to. For example, adoption of codes that require developers to install minimum emergency vehicle access roadways facilitates the emergency response and recovery of a threatened area.

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 #13 with Pierce County
5. **Timeline** = Ongoing
6. **Benefit** = Fire District-Wide
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal would be endorsed by the entire community.

Strengthen Regional Partnerships

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

The Fire District will continue to develop partnerships and relationships with regional partners in the disaster preparation, response, and recovery activities. Such partners will include: Pierce County, City of Tacoma, City of Federal Way, etc. Regional implementation mechanisms include: Associations, Boards, Exercises, Working Groups, etc.

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 #13
5. **Timeline** = Ongoing
6. **Benefit** = Fire District-Wide, Regional Partners
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Provide Pre-Fire Planning to District Residential and Commercial Properties

Hazards: E, L, T, V, D, F, SW, WUI, MM

The Fire District will provide “pre-fire planning” assistance to residential and commercial properties within the District. Over time this may include an all-hazard assessment tool.

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 #13
5. **Timeline** = Short-term
6. **Benefit** = Fire District-Wide
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Public Education Mitigation Measures

Conduct Annual Disaster Training

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

The Fire District on annual basis will train all department members who will participate in operations during regional emergencies and disasters. The District will collaborate with Regional Partners to enhance the Preparedness, Response, and Recovery capabilities of the District. Regional partners could include: other local fire service providers, local cities, Pierce and King County, and Washington State.

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 state or federal grants.
4. **Lead Jurisdiction(s)** = Pierce County Fire District #13
5. **Timeline** = Ongoing
6. **Benefit** = Fire District-Wide, Regional Partners
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Develop and Implement a Community All-Hazard Awareness Campaign

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

The Fire District will develop and implement a Community All-Hazard Awareness Campaign. This will be based on the threats and the related vulnerabilities in the District. There will be information made available at the District station and dispensed at community events and District Presentation.

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 #13
5. **Timeline** = Long-term
6. **Benefit** = Fire District-Wide
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Assist Businesses to Prepare, Respond, and Recover from Emergencies and Disasters

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

The Fire District will work with local businesses with preparing for, responding to, and recovering from emergencies and disasters that impact the District. Such business partners include: Browns Point Improvement Club, Browns Point and Dash Point businesses, etc.

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 #13
5. **Timeline** = Short-term
6. **Benefit** = Fire District-Wide
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.