MITIGATION ACTIONS SCORING MATRIX

Purpose

As part of the hazard mitigation planning process, communities are asked to identify specific projects and activities (mitigation actions) that will help their communities achieve the long-term outcomes related to specific hazards. The status of each previously identified mitigation action is reviewed during the Hazard Mitigation Planning Process to determine the progress being made towards the County's hazard-specific goals. New mitigation projects and actions are also identified in this process.

The purpose of the Mitigation Actions Scoring Matrix is to determine which mitigation actions are relevant to each of the communities within Summit County and to develop a corresponding action plan that describes how the mitigation actions will be implemented. Scores collected from this Mitigation Actions Scoring Matrix will be used to decide how the mitigation actions will be prioritized, administered, and incorporated into Summit County's existing planning mechanisms.

Instructions

To complete this matrix, please review each proposed mitigation action and indicate if it is applicable to your jurisdiction. If it is applicable, score it from 1-5 for each category described below. For each category, a rating of 1 is the lowest score, a rating of 3 is neutral/unsure, and a rating of 5 is the highest score.

1. **Applicable to your jurisdiction? – Write Yes or No –** to indicate if you think this mitigation action is applicable to your community or jurisdiction. If Yes, fill out the remaining columns; if No, do not fill out the remaining columns.
2. **Cost Effective – Rank 1 – 5 –** the cost effectiveness of each proposed mitigation action, with 5 being the most cost effective and 1 being the least cost effective.
3. **Technically Feasible – Rank 1 – 5** – the feasibility of each proposed mitigation action, with 5 being the most feasible and 1 being the least feasible.
4. **Environmentally Sound – Rank 1 – 5** – the proposed mitigation action in terms of how environmentally sound it seems, with 5 being the most sound and 1 being the least sound.
5. **Immediate Need – Rank 1 – 5 –** whether each proposed mitigation action is needed immediately, with 5 being the most immediate need and 1 being not an immediate need.
6. **Risk Reduction – Rank 1 – 5 –** the proposed mitigation action on the extent to which it will reduce the total risk of the associated hazard, with 5 being the greatest contribution to risk reduction and 1 being the least contribution to risk reduction.

In addition, if there are any mitigation actions that are not listed that should be included, please add them and score them on the last page. We encourage you to consider regularly occurring problems for each hazard listed below and suggest mitigation actions for these problems. You may also list regularly occurring problems within your community without suggesting a mitigation action.

Each action is associated with a goal of the hazard mitigation plan. These goals are listed below for your reference:

- Minimize property damage, economic loss, injury, and loss of human life – to achieve the Plan's main goal of reducing the impact of natural and manmade hazards on the County's economy and the well-being of its citizens.
- Enhance public awareness and education – to widen the public's understanding of natural and manmade hazards and how they might affect public health and safety, the environment, the local economy, and basic day-to-day operations.
- Coordinate inter-jurisdictional preparedness measures – to encourage and ensure multi-jurisdictional cooperation in County-wide mitigation actions and programs so that they may be implemented efficiently and effectively.
- Provide decision-making tools for interested stakeholders – to formulate a comprehensive, updated analysis of Perry County's vulnerability to hazards so that decision-makers can better prepare for natural and manmade disasters.

NAME:	POSITION:

#	Mitigation Action	Status	Applicable to jurisdiction? (Y/N)	Cost Effective (1-5)	Technically Feasible (1-5)	Environmentally Sound (1-5)	Immediate Need (1-5)	Risk Reduction (1-5)
Civil Disturbance and Terrorism								
1	Work with law enforcement agencies to initiate a community policing program. This program encourages police officers to build relationships with community members and work closely with community organizations and leaders.	New						
2	Implement a law enforcement training program that focuses on de-escalation techniques, culture awareness, and communication techniques.	New						
3	Establish police advisory boards made up of community members who work closely with law enforcement.	New						
4	Conduct after-action reviews following a civil disturbance event to evaluate the effectiveness and appropriateness of the response.	New						
5	Conduct jurisdiction and countywide threat assessments to identify potential targets of domestic terrorism.	New						

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6	Develop emergency response plans for the potential targets identified in the threat assessments.	New						
7	Coordinate with state and federal agencies to provide domestic terrorism response training to local law enforcing.	New						
8	Creating a redundant communication pathway to our Police Department and City Hall.	Previous						
Cyber Attack								
9	Hire a Countywide cybersecurity professional to identify potential threats and mitigation actions.	New						
10	Ensure data is regularly backed up (at least every month) and securely stored.	New						
11	Encrypt sensitive data.	New						
12	Conduct annual cybersecurity training to government employees.	New						
13	Ensure that software is regularly updated to reduce vulnerabilities.	New						
Dam Failure								
14	Create inundation maps for all High Hazard Potential Dams (HHPDs) in the County.	New						
15	Ensure that all HHPDs have an emergency action plan (EAP).	New						

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16	Rehabilitate HHPDs throughout the County as needed.	New						
17	Identify hazards that could impact each of the HHPDs in the County and provide annual updates.	New						
18	Create a committee with dam owners, government employees, and residents and business owners in the inundation zone of HHPDs. Work with this committee during any planning or work as it related to HHPDs.	New						
19	Bring dam up to a Class one rating will allow habitation of downstream house and prevent potential catastrophic damage to State Route 303.	Previous						
20	Hilaka Concrete Dam Spillway Rehabilitation.	Previous						
21	Design and construction work to rehabilitate and modify the Wolf Creek Dam. Modifications include filling the hollow voids in the Ambursen-type dam with concrete to convert it to a gravity-type dam and provide at least an additional 50-years of useful life to the structure. Gate house and access safety improvements will also be completed. The improvements will enable the dam to meet all current ODNR dam regulations and design specifications and thereby mitigate potential future flooding due to dam failure.	Previous						

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22	Repair or Replacement of deteriorated concrete spillway and dam - Richfield Joint Recreation District	Previous						
Drought								
23	Identify local drought indicators, such as precipitation, temperature, surface water levels, soil moisture, etc.	New						
24	Establish a regular schedule to monitor and report conditions on at least a monthly basis.	New						
25	Regularly check for leaks in the water supply to minimize losses.	New						
26	Incorporate drought tolerant or natural landscaping (xeriscaping) practices into landscaping ordinances to reduce dependence on irrigation.	New						
27	Install low-flow water fixtures in community lifelines and government offices to reduce water consumption.	New						
Earthquakes								
28	Partner with a university, state or federal agency, or other research group to perform a study on the Akron Magnetic Boundary or Akron Aftershock Zone.	New						

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29	Partner with a university, state or federal agency, or other research group to perform a study on the increased risk of earthquakes in Summit County due to nearby drilling or gas extraction.	New						
Extreme Temperatures								
30	Ensure all emergency and homeless shelters have heating and air conditioning.	New						
31	Ensure all community lifelines have heating and air conditioning.	New						
32	Increase the minimum number of trees/plantings and reduce the amount of permitted impervious surfaces in new developments.	New						
33	Encourage, incentivize, or require the use of green roofs to reduce the impacts of urban heat islands.	New						
34	Identify at risk populations to extreme heat and cold, such as children, the elderly, and the homeless, and ensure they have access to heating and cooling shelters.	New						
Flooding								
35	Purchase and retrofit, demolish, or relocate flood prone properties throughout the County.	New						

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36	Protect natural systems along waterways by limiting development, creating parkland, adding pedestrian and bicycle paths, and creating preservation zones.	New						
37	Participate in the National Flood Insurance Program (NFIP) where appropriate.	New						
38	Develop a floodplain management plan for all jurisdictions and update it regularly.	New						
39	Establish a "green infrastructure" program to link, manage, and expand existing parks, preserves, greenways, etc.	New						
40	Develop a stormwater committee at the County and Jurisdictional level that meets regularly to discuss stormwater issues and provide updates for the next hazard mitigation plan update.	New						
41	Form or participate in an existing regional watershed council.	New						
42	Prohibit development in FEMA identified floodplains.	New						
43	Mandate or encourage the use of pervious pavement in new development.	New						
44	Conduct a verification study of FEMA's repetitive loss inventory and developing an associated tracking database.	New						

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45	Improvements to the Mud Brook storm water management area. Specific address and estimated costs to be supplied at a later time as planning continues on this project.	Previous						
46	Add (2) regional detention ponds down stream of Clipper Cove Culvert at Pirates Tr. & Windjammer Ct. to reduce peak flow at Clipper Cove Culvert.	Previous						
47	Add (6) regional detention ponds upstream of Clipper Cove at Herrington, Maryland St., Illinois Ave., Georgia St., Maryland St. to reduce peak flow at Clipper Cove Culvert.	Previous						
48	By creating the basin City will be able to store excess water from Wolf Creek reducing the amount of water flooding streets and homes downstream. Thereby reducing health and safety risks for property owners and future rescue workers. In addition, the project will reduce the need to provide emergency rescue services, flood insurance, and federal disaster assistance in the future. Wolf Creek and Pigeon Creek Confluence.	Previous						
49	Crow Berkshire inflow and infiltration Study. The City of Macedonia is experience flooding problems in the Crow Berkshire area as identified in the various sub-watersheds. This study will assist the City in identifying the Inflow and Infiltration and potential cross connection problems with proposed solutions.	Previous						

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50	Currently Kelsey Ditch has become very shallow due to silting in of its channel. This shallow stream channel has caused severe flooding. Clearing and re-grading of this stream channel should eliminate flooding issues in several neighborhoods throughout the Kelsey Ditch watershed.	Previous						
51	Divert Storm Water runoff coming from Bainbridge Township Walmart to the City of Reminderville into Aurora Lake via properly size storm sewer.	Previous						
52	Hudson Run, on City's west side experiences moderate flooding for two apartment complexes and eight residences. The city is examining obtaining vacant floodplain property for additional flood improvements. Also, low lying residential property subject to repetitive flooding.	Previous						
53	Increasing the retention ponds storage capacity will reduce flooding downstream for residents. Thereby reducing health and safety risks for property owners on Robinson Avenue.	Previous						
54	Maca Ditch, currently the existing culvert is undersized that runs under Eastwood Ave. Due to installing a properly sized culvert the over topping of the roadway and flooding issues of several neighborhoods should be eliminated.	Previous						

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55	Mud Run, on the City's NE side has experienced significant flooding over the past six years. Flooding affects an industrial section of the City. Barberton's Harter Park, north of the industrial area, has a large open area adjacent to Mud Run with a potential for floodwater storage.	Previous						
56	Reinforcement of berms along the Ohio Canal.	Previous						
57	Remove existing house in City of Stow to allow for emergency overflow of storm system during 100-year rain events.	Previous						
58	Repair of storm sewer outlets causing erosion to protect nearby structures and utilities.	Previous						
59	Residential construction in the South Barberton area prior to the July 2016 FEMA FIRM Map Revision was not in a 100 yr. Flood Zone. A number of post- 1990 residences, now in the flood zone, include basements that are subject to flooding. First floor elevations are generally above the Base Flood Elevation.	Previous						
60	Restoration and maintenance of drainage ditch that collects water from the Giant Eagle Plaza and Conservatory Dr. areas and drains to South Barberton.	Previous						

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61	South Main Street experiences flooding approximately between Nimisila Road and Center Road. Numerous factors contribute to the flooding; aging/failing infrastructure, high groundwater, and inadequate stormwater management. The project will replace over 3,000' of failing and hydraulically inadequate storm sewer. Potentially storm water detention will be evaluated using an existing series of ponds and potential property acquisition.	Previous						
62	Stabilization and restoration of the Cuyahoga River where erosion of the bank is occurring near the Cascade Valley Park ballfields.	Previous						
63	Stabilization and restoration of the Little Cuyahoga River where erosion of the bank is occurring near Cascade Village.	Previous						
64	Study of Parcels upstream of Pigeon Creek, Schocolog Run, Wolf Creek and Ditch 38 to determine which would be most advantageous to purchase to control flood waters.	Previous						
65	Summit County Engineer's Surface Water Management District, relative design, implementation, and maintenance of prioritized township stormwater projects to protect life, property and the environment from flooding.	Previous						

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66	The profile grade of Kepler Road will be re-aligned to raise the roadway above flood elevation to avoid road closure during rain events. A series of shallow culverts will maintain flow under the roadway.	Previous						
67	The Sanctuary proposal along Wye Road and unnamed stream enters Yellow Creek will prevent flooding and achieve water quality improvements by processing all the runoff from the project area through a to bio-infiltration system designed to accommodate up to the 10-Year storm.	Previous						
68	The Village of Lakemore hopes to install a storm sewer for flood-prone properties. Installing lines or replacing failing lines is necessary as many properties are at elevations below the lake.	Previous						
69	This project would be in conjunction with the City of New Franklin and ODNR. The project consists of the purchase and installation of permanent pumps to remove flood waters on S. Main St. stemming from major rain events and legacy issues with the Nimisila Reservoir embankment along S. Main St. The roadway becomes impassable at times and poses a risk to homes location in New Franklin.	Previous						

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70	To raise 260 feet of roadway 18 inches to eliminate flooding of the roadway and preventing residents from traveling to and from their home during heavy rains. Underground utility service boxes will need to be raised, which include electric, phone, and cable. Two catch basins, 3 water service lines, 2 light poles, 1 manhole, and 1 fire hydrant will also have to be raised. 200 feet of Sidewalk, 3 driveway aprons and 8 street trees will have to be replaced.	Previous						
71	Construct detention facility near Atterbury Blvd. (BRPA010)	New						
72	Increased detention upstream of downtown Hudson, stabilization of stream channel, replacement of infrastructure (BRPA14)	New						
73	Dam removal and stream restoration Pine Lake area (BRPA09)	New						
74	Construct additional detention, stream stabilization. Brandywine Drive area (BRPA11)	New						
75	Relief sewer construction, stream restoration / floodplain creation (BRPA15)	New						
76	Increase detention through upgrades of existing detention facilities and creation of new detention, stormsewer replacement. Flood reduction Ravenna Rd. (BRPA16)	New						

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77	Acquisition and demolition of 3 homes, flood warning system Middleton - E. Hines Rd. (BRPA12)	New						
78	Increase floodplain storage, install relief sewer, stabilize stream channel Valley View Rd. area (ICPA01)	New						
79	Acquisition and demolition of 4 homes, streambank stabilization (BRPA05)	New						
80	Acquisition and demolition of 5 homes, floodplain creation, culvert crossing replacement/ upsizing Bedford /Ledge Rd. area (ICPA02)	New						
81	Replacement of private culvert with open channel, upsize of public crossing culvert, reduction of flooding on Summersweet Trail (CUPA01)	New						
82	Upsizing of public and private culverts, floodplain creation and stream restoration Chaffee Rd. (CUPA02)	New						
83	Acquisition and demolition of 1 homes, stream daylighting, stream restoration. Cranberry Trail area(CUPA05)	New						
84	Upsize crossing Troubadour Dr. (SCPA03)	New						

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Hazardous Materials								
85	Complete a commodity flow study for the County.	New						
86	Conduct and report regular inspections of hazardous materials facilities.	New						
87	Record and regularly update ongoing spill prevention measures at hazardous materials facilities.	New						
Infectious Disease								
88	Increase the number of vaccination sites and testing centers throughout the County.	New						
89	Enhance disease surveillance and tracking to quickly identify and halt potential outbreaks.	New						
90	Work with public health officials to create a countywide infectious disease response plan.	New						
91	Utilize new technology and scientific and medical discoveries to meet the ever growing, ever changing needs of the communities. Partner with public safety and the public health and medical partners to ensure that Summit County is prepared and is protected from bioterrorism, as well as other disasters.	Previous						
Landslides and Mine Subsidence								
92	Use GIS to identify and map landslide hazard areas.	New						

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93	Relocate community lifelines located within identified landslide hazard areas.	New						
94	Identify and map the locations of abandoned underground mines.	New						
95	Relocate community lifelines located above abandoned underground mines.	New						
96	Utilize soil stabilization strategies, such as planting soil-stabilization vegetation on steep, publicly owned slopes.	New						
97	Define and identify steep slope areas and regulate development in these areas.	New						
98	Reclaim areas disturbed by mining operations and address problems including mine openings, landslide, highwalls, erosion and subsidence.	Previous						
99	Repair and stabilization of slopes and protection and repair of structures and utilities affected by landslides.	Previous						

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100	Several abandoned coal mines, seven known, are located throughout the western part of the City of Tallmadge. The potential for mine subsidence could cause damage to personal and private property within the City, as it has twice in the past. This project would allow for mapping of the mine structures, allowing for a true map of where the mines are which would lead to the creation of a mitigation plan including mine stabilization, filling, zoning restrictions etc. that would limit the potential for damage to persons or property.	Previous						
101	The City of New Franklin has abandoned mines throughout the City. In particular, Lockhart Park has an abandoned mine entrance that appears to have experience settlement over the years. The project will reclaim areas disturbed by coal mining operations. Types of problems addressed include: mine openings, landslides, highwalls, erosion and subsidence.	Previous						

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102	We have a list of 30 landslides we monitor on a periodic basis. The landslide areas can be classified as small (less than $150,000 to repair) medium (less than $2 million to repair) and large (up to $10 million to repair). Some of the sites have had the slides repaired in the past but once an area shows a tendency to move, it remains an active site to be monitored.	Previous						
Multiple Hazards								
103	Adopt and enforce the International Building Code (IBC) for all building types.	New						
104	Participate in FEMA's Community Rating System (CRS)	New						
105	Mail education pamphlets/brochures about the risks of various hazards.	New						
106	Identify high risk populations, as related to natural hazards. Examples include the elderly and the homeless.	New						
107	Reduce the strictness of lawn maintenance ordinances to reduce the use of fertilizers (water contamination), to reduce water use (drought), and to strengthen natural systems (floods).	New						

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108	Change parking minimums to parking maximums for new development to reduce the urban heat island effect and the chance of flash floods.	New						
109	Utilize impact fees for large-scale new development to fund mitigation actions. Impact fees offset the impact the new development has on roadways, utility services, and natural systems.	New						
110	Install new underground stormwater system to prevent flooding and icy conditions on Houghton Road between State Route 8 and Bordeman Ave.	Previous						
111	Acquisition/Demolition and culver removal and replacement at two driveways that are shared by five property owners. These properties sit within the FWMA 100-year floodplain.	Previous						
112	Construction of the Brittain Road Reservoir Replacement project to replace an existing water reservoir.	Previous						
113	Replace ex. four (4) - 42" culvert pipes under Clipper Cove to a 16' x 4' Box Culvert with full size headwalls.	Previous						
114	The Village would like to replace the generator at the sanitary sewer lift station to ensure the lift station is always pumping to force main.	Previous						

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115	Implement Area-wide Automatic Vehicle Location (AVL) System and Software. Each entity or jurisdiction would have their own account but would utilize the same system/software throughout the region for coordinated responses and allow the Emergency Operations Center (EOC) location and data access to all jurisdictions responding to the incident.	Previous						
116	Stabilization and restoration of the Little Cuyahoga River where erosion of the bank is occurring near Lock 18, upstream of the Rack 26 overflow to protect electric utility structures, the Little Cuyahoga Interceptor sewer and the Towpath Trail.	Previous						
117	Tallmadge Lions Park has nearly 2,000 – 3,000 park visitors daily. This facility will provide the community and/or park visitors with an emergency safe shelter. The construction of a new Multi-Use Community Safe Shelter will serve as a center to provide shelter for the community the event of a 'natural' disaster. The facility is otherwise intended to be used for community activities.	Previous						

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118	This proposal is to construct a multi-use shelter on property that connects both the City's outdoor athletic facility and the County's fairgrounds. The shelter would be designed for multi-use to allow for greater utilization of the facility and the monies being spent while offering safe sheltering locations for hundreds of City and County event goers.	Previous						
119	Work with all jurisdictions on strengthening abilities to fill in gaps and implement mitigation efforts.	New						
Tornadoes								
120	Install emergency shelters in community lifelines, particularly in those that cater to at risk communities such as children or the elderly.	New						
121	Install lightning protection devices, such as lightning rods, on community lifelines.	New						
122	Require emergency shelters in mobile home parks.	New						
123	The siren would be located at the intersection of S. Cleveland Massillon Road and Main Street. This early warning system will protect critical facilities and mitigate loss of life.	Previous						

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Transportation Incidents								
124	Draft and implement an Active Transportation Plan and include elements for bicycle and pedestrian safety.	New						
125	Perform road diets on major roadways.	New						
126	Identify high risk streets and install traffic calming elements such as wider sidewalks, street trees, bike lanes, round abouts, chicanes, etc. along those streets.	New						
Utility and Energy Interruption								
127	Create an EOP specifically for utility failure.	New						
128	Create an EOP with a section dedicated to utility failure.	New						
129	Ensure that infrastructure is regularly maintained and record maintenance operations.	New						
130	Install backup generators and secondary water supplies in community lifelines.	New						
131	Ensure that local law enforcement are trained on traffic management in the event of widespread electric failure.	New						
132	Improving emergency generation capacity of the city for critical infrastructure buildings, including running redundant electrical lines.	Previous						

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133	Emergency power, upgrades to pump station controls and telemetry to allow adjustment of the booster pump operation and monitoring of station status.	Previous						
134	Install and activate emergency generator at Municipal Service Garage which houses equipment and staff that would be utilized in a disaster situation.	Previous						
Water Contamination								
135	Perform regular water quality monitoring.	New						
136	Identify risks to water quality and water supplies in a countywide Commodity Flow Study (see Hazardous Materials).	New						
137	The new line would help with redundancy in the distribution system should the only line serving the North side of town have an issue. The addition of the replacement of the cement asbestos line and river crossing would also improve the water quality, the volume of water along South River for firefighting and the removal of the cement asbestos water main.	Previous						
Wildfires								
138	Develop of vegetation management plan, including slash and clean-up days.	New						

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139	Map wildfires in the County as they are reported, including small scale fires reported to the OEMA.	New						
140	Ensure community lifelines have smoke detectors, sprinkler systems, and fire extinguishers.	New						
Winter Weather								
141	Install living fences (tree lines, tall bushes, etc.) along roadways to limit snow blow.	New						
142	Remove snow and ice from community lifelines regularly during the winter season.	New						
143	Educate the public on the dangers of shoveling snow for at risk populations, particularly the elderly.	New						
144	Ensure emergency and homeless shelters have heating systems and blankets.	New						
145	Create a snow-shoveling program for at-risk populations.	New						
146	Create a robust snow removal program to ensure evacuation routes, delivery routes, school routes, etc. are quickly cleared after heavy snowfall.	New						
147	Purchase smaller snow removal vehicles that can assist other emergency vehicles, such as ambulances.	New						

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148	Coordinate with utility providers to ensure that water, electric, gas, and internet services will not be negatively impacted by winter storms or will be quickly repaired. Examples include frozen pipelines and ice buildup on overhead electricity lines.	New						

Additional Mitigation Actions

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