

MEMORANDUM

January 15, 2019

TO: Public Safety Committee

FROM: *KL* Keith Levchenko, Senior Legislative Analyst

SUBJECT: Resolution to Approve the 2018 Montgomery County Hazard Mitigation Plan

PURPOSE: To discuss and make a recommendation to the Full Council regarding the Draft 2018 Hazard Mitigation Plan

Council Staff Recommendation: Approve

Executive staff attendees for this meeting include:

- Earl Stoddard, Director, Office of Emergency Management and Homeland Security (OEMHS)
- Marianne Souders, Planning Division Chief, OEMHS
- Michael Boldosser, Emergency Management Specialist, OEMHS

Attachments Include:

- Draft Resolution ©1-2
- County Executive Transmittal Memorandum (©3)
- 2018 Hazard Mitigation Plan Draft (September 2018) Excerpts¹
 - Table of Contents (©6-12)
 - Executive Summary (©13-16)
 - Chapter 4 Excerpts
 - Severe Storms Mitigation Strategy (©17-22)
 - Winter Storms Mitigation Strategy (©23-25)

Background

On January 11, the County Council received the County Executive's transmittal (see ©3) of the Hazard Mitigation Plan (HMP). The proposed plan will replace the existing plan approved by the Council in 2013. A draft resolution approving the new HMP is attached on ©1-2.

¹ The full HMP is available for download at:

<https://www.montgomerycountymd.gov/OEMHS/Resources/Files/HMP0918-Final-Draft-Plan-Complete0104.pdf>.

Under federal regulations developed after passage of The Federal Disaster Mitigation Act of 2000, states and local governments must have an approved and adopted hazard mitigation plan to maintain eligibility for pre- and post-disaster mitigation grant funding. The Federal Emergency Management Agency (FEMA) is responsible for approving state and local plans.

The new HMP has been reviewed and approved by the Maryland Emergency Management Agency and is currently under review by the Federal Emergency Management Agency. Because of the ongoing federal shutdown, the Executive recommends the Council approve the HMP while the FEMA review is pending, to avoid any lapse in maintaining a current Hazard Mitigation Plan.

Michael Boldosser of OEMHS managed the development of the new HMP and will provide a summary of the new HMP to the Committee.

Discussion

Process

OEMHS secured a private firm to assist in the update of the HMP. On November 9, 2017, the County and the contractor met for an internal project kickoff meeting. A public forum was held on December 14, 2017, during which the mitigation planning update project was introduced to County officials, representatives of participating jurisdictions, stakeholders, and the general public. OEMHS staff conducted one on one meetings with local municipality officials throughout the month of March. Meetings in February (risk assessment) and April (mitigation actions) were held. The HMP was transmitted to the Maryland Emergency Management Agency (MEMA) in October 2018 and sent to FEMA in January 2019. The partial government shutdown has temporarily affected FEMA's approval process.

New and Updated Information

The 2018 HMP includes much new and updated information, including:

- Major emergencies over the past five years were added to historic charts and into the risk factor information
- New flood maps recognizing areas of repeat claims (frequent flooding) for flood loss (such as White's Ferry, Aspen Hill, and parts of Silver Spring)
- Updated population/demographic information
- Direct input from the municipalities regarding capabilities and concerns
- New mitigation action items resulting from the work of the Core Mitigation Planning Committee members and other stakeholders.

One major change from the 2013 HMP is the removal of Hazardous Materials and Dams from this plan. Since Federal Mitigation Funds are only eligible for Natural Hazards, the Planning Committee opted to treat these hazards in separate documents.

Another change is in the structure of the goals and objectives. The previous HMP had 13 goals, with separate objectives under each goal; the new HMP has one overarching goal and seven distinctive objectives.

The topic of climate change came up at many of the meetings. While climate change is not a FEMA-recognized natural hazard, many of those involved in the planning process felt it should be addressed. The planning committee quickly realized this topic needs much more in-depth study than the current scope of the HMP would allow. Moving forward, OEMHS proposes an in-depth study of the impacts climate change will have on Montgomery County and the potential mitigation strategies available.

Recommended Mitigation Actions

A key component of the HMP is the list of recommended mitigation actions. These actions are included in Chapter 4 of the Report and include anticipated costs (when known), potential funding sources, timeframe, STAPLEE² priority, and other general information.

The recommended actions are organized by the specific hazard they address. These recommended actions can be very specific (such as Action 2.1.3: “Provide 4WD Vehicles for Law Enforcement Personnel During Heavy Snow Activity”; 6 units at \$25,000 each) (see ©24) to more general (such as public awareness campaigns, coordination with other agencies, and community outreach efforts). Some action items, while specific in nature (“purchase emergency generators”), provide flexibility for determining the facility priorities later and also allow for a variety of sub-projects.

A key point is that mitigation actions need to be included in the HMP to be eligible for FEMA Hazard Mitigation Grant Project (HMGP) funds once the HMP is adopted. Conversely, inclusion of a mitigation item does not commit the County (or others) to financially support or implement the action.

Technical Edits and Corrections

Council Staff identified some errata and other corrections and clarifications needed and worked with OEMHS staff to incorporate these changes into the final HMP document for Council action.

Council Staff Recommendation

Council Staff recommends approval of the 2018 Hazard Mitigation Plan.

Attachments

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² STAPLEE is a cost/benefit analysis tool developed by FEMA that includes considerations for Social, Technical, Administrative, Political, Legal, Environmental, and Economic issues.

Resolution No.: _____
Introduced: _____
Adopted: _____

**COUNTY COUNCIL
FOR MONTGOMERY COUNTY, MARYLAND**

By: Council President at the Request of the County Executive

SUBJECT: The Montgomery County Hazard Mitigation Plan 2018

Background

1. The Montgomery County Hazard Mitigation Plan was first approved by the County Council by Resolution 14-569 in June 2000. Updated Multi-Hazard Mitigation Plans were approved by Resolution 16-41 in February 2007 and Resolution 17-832 in July 2013. Upon adoption of this resolution, the Montgomery County Hazard Mitigation Plan 2018 supersedes all previous County mitigation plans.
2. On October 30, 2000, the federal Disaster Mitigation Act of 2000 (Public Law 106-390) was signed into law. To reduce the effects of disasters, the law encourages, among other initiatives, a planning process based on cooperation among state and local authorities, community partners and the public at large. The law recognizes local and state pre-disaster planning and promotes “resiliency” as a major mitigation strategy. Under the regulations implementing this law, states and local governments must have an approved and adopted hazard mitigation plan in order to maintain eligibility for pre- and post-disaster mitigation grant funding. The Federal Emergency Management Agency (FEMA) is responsible for reviewing and approving state and local plans.
3. The Montgomery County Hazard Mitigation Plan 2013 is a major update to the 2007 Hazard Mitigation Plan and is in accordance with following state and federal rules and regulations governing local hazard mitigation plans.
 - Robert T. Stafford Disaster Relief and Emergency Assistance Act, 42 U.S.C. §5121 *et seq.*, Section 322 (*Mitigation Planning*) (42 U.S.C. §5165), as enacted by Section 104 of the Disaster Mitigation Act of 2000 (P.L. 106-390), and FEMA’s Interim Final Rule published in the Federal Register on February 26, 2002, at 44 CFR Part 201.
 - Maryland Emergency Management Agency (MEMA) established under Section 14-103 in the Public Safety Article of the Maryland Code. The Emergency

Management Policy was updated in 1991 through Executive Order 01.01.1991.02
State of Maryland Emergency Management Policy.

4. In developing this plan, a core planning team was assembled consisting of County agencies, municipalities, utility companies, and community and volunteer organizations. Three public hearings were held to solicit public input. Representatives from 18 local municipalities were conferred with directly to receive their inputs. The purpose of the Hazard Mitigation Plan is to identify policies, capabilities, activities and tools to help make Montgomery County more resilient in the face of future disasters.
5. In October 2018, the County submitted its initial draft of the Hazard Mitigation Plan to the Maryland Emergency Management Agency (MEMA) for review and incorporated all comments satisfactorily. In January 2019, the County forwarded its final Draft Hazard Mitigation Plan to the Federal Emergency Management Agency (FEMA) for review and approval. The partial government shutdown directly affected FEMA's review capabilities. Delaying County adoption of the Hazard Mitigation Plan until FEMA conducts its review could potentially put the County at risk of losing Federal Disaster Funds if the County suffers a declared disaster after our current plan expires.

Action

The County Council for Montgomery County, Maryland approves the following resolution:

The County Council approves and adopts the Montgomery County Hazard
Mitigation Plan 2018

This is a correct copy of Council action.

Megan Davey Limarzi, Esq.
Clerk of the Council



OFFICE OF THE COUNTY EXECUTIVE
ROCKVILLE, MARYLAND 20850

Marc Elrich
County Executive

MEMORANDUM

January 10, 2019

TO: Nancy Navarro, President, County Council
FROM: Marc Elrich, County Executive *ME*
SUBJECT: 2018 Hazard Mitigation Plan

It is my pleasure to transmit to you the County's 2018 Hazard Mitigation Plan for the Council's review and adoption. This Plan was completed in accordance with following State and federal rules and regulations governing local hazard mitigation plans:

- Robert T. Stafford Disaster Relief and Emergency Assistance Act, 42 U.S.C. § 5121 *et seq.*, Section 322 (*Mitigation Planning*) (42 U.S.C. § 5165), as enacted by Section 104 of the Disaster Mitigation Act of 2000 (P.L. 106-390), and FEMA's Interim Final Rule published in the Federal Register on February 26, 2002, at 44 CFR Part 201; and
- Maryland Emergency Management Agency (MEMA) established under Section 14-103 in the Public Safety Article of the Maryland Code. The Emergency Management Policy was updated in 1991 through Executive Order 01.01.1991.02 State of Maryland Emergency Management Policy.

Over the past 12 months, a core planning team consisting of County agencies, utility companies, and community and volunteer organizations was assembled to develop this updated plan, which included two public hearings to solicit input. The ultimate goal of the hazard mitigation plan is to identify policies, capabilities, activities, and tools to make Montgomery County more resilient in the face of future disasters.

This plan has been reviewed and approved by the Maryland Emergency Management Agency MEMA and is currently under review by the Federal Emergency Management Agency. Unfortunately, the ongoing federal shutdown requires that we move forward with County Council approval while the FEMA review is pending so as to avoid any lapse in maintaining a current Hazard Mitigation Plan.

Please contact the Office of Emergency Management and Homeland Security Director Earl Stoddard at 240-777-2469, if you have any questions or concerns.

Attachment

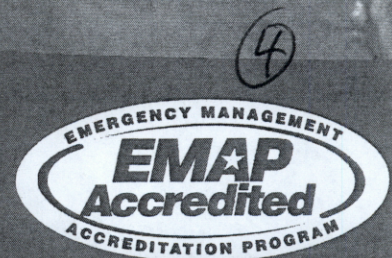
Montgomery County, Maryland



Hazard Mitigation Plan

September 2018

Office of Emergency Management & Homeland Security



This Plan was developed in cooperation with:

Montgomery County

CITIES OF:

Gaithersburg

Rockville

Takoma Park

TOWNS OF:

Barnesville

Brookeville

Chevy Chase

Chevy Chase View

Chevy Chase Village

Garrett Park

Glen Echo

Kensington

Laytonsville

Poolesville

Somerset

Washington Grove

VILLAGES OF:

Chevy Chase, Section 3

Chevy Chase, Section 5

Martin's Additions

North Chevy Chase

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EXECUTIVE SUMMARY

Efficiently use County resources to minimize the loss of life and property from natural hazards and protect County assets, infrastructure, and critical facilities.

Hazard mitigation is commonly defined as sustained actions taken to reduce or eliminate long-term risk to people and property from hazards and their effects. A hazard mitigation plan states the aspirations and specific courses of action that a community intends to follow to reduce vulnerability and exposure to future hazard events.

The intention of this Plan update is to serve as a blueprint for coordinating and implementing hazard mitigation policies, programs, and projects. It provides a list of mitigation goals, objectives, and related actions that may assist Montgomery County in reducing risk and preventing loss from future natural hazard events. The impacts of hazards can be lessened and sometimes avoided altogether if appropriate actions are taken before hazardous events occur. By avoiding unnecessary exposure to known hazard risks, communities will save lives and property and minimize the social, economic, and environmental disruptions that commonly follow hazard events. Montgomery County and its municipalities agree that hazard mitigation makes sense. Through the identification of vulnerable areas and the implementation of measures aimed at minimizing exposure, the negative impacts of natural hazards may be reduced for Montgomery County.

Communities face significant challenges during post-disaster redevelopment in balancing the driving need for rapid recovery with implementing long-term hazard mitigation. The necessity to meet basic needs and resettle displaced populations immediately following a disaster often overshadows the more abstract, longer-term sustainability considerations. Once full-scale reconstruction is initiated, it is difficult to modify projects in progress to meet sustainability objectives. This trend highlights the need for pre-disaster mitigation planning that incorporates principles of sustainable development within the context of reconstruction, so that communities can more easily rebuild in a manner that will make them less vulnerable to future hazard events while improving the quality of life.

It is essential that local decision makers become and stay involved in this planning process to provide new ideas and insight for future updates to the Hazard Mitigation Plan for Montgomery County. It will remain a challenge and a goal for Montgomery County to provide necessary updates as mitigation techniques are implemented. It will remain imperative that all local agencies, units of government, non-profit organizations, businesses and industries, and private citizens continue their involvement and dedication to hazard mitigation.

This update serves as a multi-jurisdictional hazard mitigation plan that represents a combined County and local commitment to reduce risks from natural hazards. The intent of this update is to produce a document that local officials can refer to in their day-to-day activities and in decisions regarding land use and planning decisions, regulation and ordinance creation and enforcement, granting permits, capital improvement investments, disaster planning and other community initiatives. Additionally, the update

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to this hazard mitigation plan serves as the basis for FEMA and States to prioritize future grant funding as it becomes available.

The *2018 Montgomery County Plan Update* will continue to be a useful tool for all community stakeholders by increasing public awareness about local hazards and risks and by providing information about options and resources available to reduce those risks. Educating the public about potential hazards will help each jurisdiction protect itself against the effects of future hazards and will enable informed decision-making regarding where to live, purchase property, or locate business.

The Montgomery County Hazard Mitigation Plan was developed by members of a Mitigation Planning Committee (MPC) that consisted of County agencies, regional partners, and the following local jurisdictions:

Barnesville
Brookeville
Chevy Chase
Chevy Chase View
Chevy Chase Village
Chevy Chase Village Section 3
Chevy Chase Village Section 5
Gaithersburg
Garrett Park
Glen Echo
Kensington
Laytonsville
Martin's Additions
The Village of North Chevy Chase
Poolesville
Rockville
Somerset
Takoma Park
Washington Grove

Hazards were ranked by the MPC and reevaluated during the planning process to determine the hazards with the largest impact on the County and its communities. The following table summarizes the results of the hazard identification, which are further explained in Chapter 3 of this plan.

HAZARD	RANK
Severe Storm	High Rank
Winter Storm	Medium Rank
Extreme Heat	Medium Rank
Flooding	Medium Rank
Hurricane/Tropical Storm	Medium Rank
Fire	Medium Rank
Water Shortage/Drought	Medium Rank

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HAZARD	RANK
Tornado	Medium Rank
Earthquake	Medium Rank
Land Subsidence/Karst	Low Rank

The MPC members used the results of the Hazard Identification and Risk Assessment (HIRA) as well as the Capability Assessment to develop goals and inform updated strategies, actions, and projects for the County and its independent jurisdictions. The new 2018 mitigation strategy was re-organized to better correspond with both County agencies as well as local jurisdictions, programs, and plans.

The MPC members reviewed the 12 goals that were presented in the 2013 plan and re-worked them to include one overarching goal with seven distinctive objectives. The 2018 updated plan goals and objects are as follows:

Goal:

Efficiently use County resources to minimize the loss of life and property from natural hazards and protect County assets, infrastructure, and critical facilities.

Objectives:

1. Encourage building and land use regulations that increase safety and resiliency and reduce risks posed by natural disasters.
2. Protect public health, safety, and welfare by increasing public awareness of existing natural hazards and by fostering individual and public responsibility in mitigating risks caused by those hazards.
3. Ensure that infrastructure is adequate and properly maintained to provide continued functionality of all critical services necessary to protect residents and property.
4. Improve communications and increase natural hazard awareness through education and citizen participation.
5. Enhance the capabilities of local jurisdictions to identify and mitigate natural hazards.
6. Participate and comply with the National Flood Insurance Program through floodplain identification and mapping and floodplain management.
7. Promote actions that protect historic and cultural resources, while enhancing hazard mitigation and community resiliency.

Montgomery Office of Emergency Management and Homeland Security staff conducted in-person interviews with each community to discuss the status of action items that were identified in the 2013 strategy and to develop new actions for the 2018 strategy. These actions were compiled and prioritized

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for each jurisdiction. Communities shared common strategies and developed community-specific actions that varied somewhat from jurisdiction to jurisdiction.

As part of the in-person interview, Montgomery County staff also conducted a survey to evaluate each jurisdiction's capability. This assessment evaluated the current capacity of each jurisdiction to mitigate the effects of the natural hazards identified in the HIRA. By providing a summary of each jurisdiction's existing capabilities, the Capability Assessment serves as the foundation for designing an effective hazard mitigation strategy.

The *2018 Montgomery County Mitigation Plan Update* embodies the continued commitment and dedication of the local jurisdictions and community members of the County to enhance the safety of residents and businesses by taking action before a disaster strikes. While nothing can be done to prevent natural hazard events from occurring, the region is poised to minimize the disruption and devastation that so often accompany these disasters.

The plan update is organized as follows, with detailed table and figure lists provided, by chapters, in the Table of Contents.

The Executive Summary provides the plan update context of the County and its local jurisdictions. The County MPC is described, along with the planning process, HIRA outcome, refreshed mitigation plan goals and a summary of updated mitigation action organization and plan implementation.

Planning Process summarizes the planning history behind the Disaster Mitigation Act of 2000, its regulatory requirements, the plan planning process used by the Montgomery County during the plan update process, and a description of stakeholder involvement and outreach.

Community Profile and Coordination provides a physical and demographic profile of the County, examining characteristics such as geography, hydrography, development, people, and land uses. This section additionally reviews land use planning authority for the County and multi-jurisdictional planning and participation.

Hazard Identification and Risk Assessment evaluates the natural hazards likely to affect or impact the County, quantifying whom, what, where, and how the area might be affected by natural hazards.

Hazard Mitigation Goals, Objectives, and Strategy addresses local and regional hazard-related issues and concerns by establishing a revised framework for mitigation activities and policies. The strategy includes a range of updated mitigation strategies, actions, and projects to support achievement of the plans goal and objectives.

Capability Assessment, Implementation and Plan Maintenance Procedures describes available programs and resources that can support plan implementation. This section describes how the plan will be monitored, evaluated, and updated, including a process for continuing stakeholder involvement after the plan is completed. A list Appendices are included at the end of the plan and contain supplemental reference materials and more detailed calculations and methodologies used in the planning process.

SEVERE STORMS MITIGATION STRATEGY**IDENTIFICATION AND ANALYSIS OF RANGE OF MITIGATION OPTIONS**

The Montgomery County Mitigation Planning Committee considered a range of mitigation options for the Severe Storms Mitigation Strategy.

EXISTING POLICIES, REGULATIONS, ORDINANCES, AND LAND USE

Mitigation of building damage has been most successful where strict building codes for high-wind influence areas and designated Special Flood Hazard Areas (SFHAs) have been adopted and enforced by local governments and complied with by builders. County and municipal construction and zoning ordinances are applicable within their respective jurisdictions.

NEW BUILDINGS AND INFRASTRUCTURE

Attention to the type of structure used in tornado-prone areas may yield benefits, particularly by avoiding highly susceptible manufactured or mobile homes. The greatest protection is afforded by quality construction and reinforcement of walls, floors, and ceilings. Properly anchoring walls to foundations and roofs to walls is essential for a building to withstand certain wind speeds. Code adoption by local jurisdictions, compliance by builders, and local government inspection of new homes could reduce the risk of destruction in high wind-prone areas.

EXISTING BUILDINGS AND INFRASTRUCTURE

Existing manufactured or mobile homes are most exposed to damage from severe thunderstorms. Even if anchored, mobile homes do not withstand high wind speeds as well as some permanent, site-built structures. Existing structures can be retrofitted to withstand higher winds and safe rooms may be constructed in existing buildings or as standalone facilities. Safe room construction includes very specific design and engineering standards set forth by FEMA for structures to withstand tornado force winds. Retrofitting existing structures to meet safe room criteria involves making improvements to walls, roofs, window, and doors, among other structural elements of the building.

MITIGATION ACTION PLAN

Mitigation Action 1.1.1 INSTALL UNINTERRUPTIBLE POWER SUPPLIES ON CRITICAL ELECTRONIC EQUIPMENT IN COUNTY AND MUNICIPAL FACILITIES	
RESPONSIBLE DEPARTMENT	MONTGOMERY COUNTY OEMHS
ANTICIPATED COST	\$500-\$1,000 PER FACILITY
EXISTING & POTENTIAL FUNDING SOURCES	COUNTY FUNDS, FEMA HMA GRANTS
RESPONSIBLE JURISDICTION	MONTGOMERY COUNTY
ADDITIONAL JURISDICTIONS	CHEVY CHASE SECTION 3, CITY OF ROCKVILLE, WASHINGTON GROVE
TIMEFRAME	5 YEARS
STAPLEE PRIORITY	HIGH
STATUS (CARRIED OVER OR NEW)	CARRIED OVER

CHAPTER 4**HAZARD MITIGATION GOALS, OBJECTIVES, AND STRATEGY****Mitigation Action 1.1.2****COORDINATE WITH THE MD STATE HIGHWAY ADMINISTRATION TO PROVIDE BACK-UP POWER/GENERATORS FOR ALL MAJOR STATE ROADS**

RESPONSIBLE DEPARTMENT	MONTGOMERY COUNTY OEMHS & DOT
ANTICIPATED COST	\$15,000 PER UNIT (\$150,000 TOTAL)
EXISTING & POTENTIAL FUNDING SOURCES	COUNTY FUNDS, FEMA DHS GRANTS
RESPONSIBLE JURISDICTION	MONTGOMERY COUNTY
ADDITIONAL JURISDICTIONS	N/A
TIMEFRAME	5 YEARS
STAPLEE PRIORITY	HIGH
STATUS (CARRIED OVER OR NEW)	CARRIED OVER

Mitigation Action 1.1.3**INSTALL BACKUP GENERATORS FOR THE POTOMAC WATER TREATMENT FACILITY – A WASHINGTON SUBURBAN SANITARY COMMISSION FACILITY**

RESPONSIBLE DEPARTMENT	MONTGOMERY COUNTY OEMHS
ANTICIPATED COST	TBD
EXISTING & POTENTIAL FUNDING SOURCES	WSSC FUNDS/FEMA HMA GRANTS
RESPONSIBLE JURISDICTION	MONTGOMERY COUNTY/WSSC
ADDITIONAL JURISDICTIONS	N/A
TIMEFRAME	3 YEARS
STAPLEE PRIORITY	HIGH
STATUS (CARRIED OVER OR NEW)	CARRIED OVER

Mitigation Action 1.1.4**EDUCATE THE PUBLIC ON HOW TO PROTECT PROPERTY AND RESIDENTIAL ELECTRICAL SYSTEMS**

RESPONSIBLE DEPARTMENT	MONTGOMERY COUNTY OEMHS
ANTICIPATED COST	\$250,000
EXISTING & POTENTIAL FUNDING SOURCES	COUNTY FUNDS, FEMA HMA GRANTS
RESPONSIBLE JURISDICTION	MONTGOMERY COUNTY
ADDITIONAL JURISDICTIONS	N/A
TIMEFRAME	3 YEARS
STAPLEE PRIORITY	MEDIUM
STATUS (CARRIED OVER OR NEW)	CARRIED OVER

CHAPTER 4**HAZARD MITIGATION GOALS, OBJECTIVES, AND STRATEGY****Mitigation Action 1.1.6****PURCHASE EMERGENCY GENERATORS FOR CRITICAL FACILITIES**

RESPONSIBLE DEPARTMENT	WASHINGTON GROVE
ANTICIPATED COST	\$15,000 - \$20,000
EXISTING & POTENTIAL FUNDING SOURCES	MUNICIPAL FUNDS, FEMA DHS GRANTS
RESPONSIBLE JURISDICTION	WASHINGTON GROVE
ADDITIONAL JURISDICTIONS	BARNESVILLE, BROOKEVILLE, CHEVY CHASE, CHEVY CHASE VILLAGE, CITY OF ROCKVILLE, GAITHERSBURG, GARRETT PARK, GLEN ECHO, MARTIN'S ADDITION, MONTGOMERY COUNTY, POOLESVILLE, SOMERSET, TAKOMA PARK
TIMEFRAME	1 YEAR
STAPLEE PRIORITY	HIGH
STATUS (CARRIED OVER OR NEW)	CARRIED OVER

Mitigation Action 1.2.1**TREE BRANCH/BRUSH CLEARANCE AND LIMIT HOW CLOSE VEGETATION CAN BE PLANTED NEAR/BENEATH POWER LINES**

RESPONSIBLE DEPARTMENT	MONTGOMERY COUNTY DOT, GARRETT PARK
ANTICIPATED COST	\$2,000,000 (COUNTY), \$10,000-\$100,000 (MUNICIPAL)
EXISTING & POTENTIAL FUNDING SOURCES	COUNTY FUNDS, MUNICIPAL FUNDS
RESPONSIBLE JURISDICTION	MONTGOMERY COUNTY, GARRETT PARK
ADDITIONAL JURISDICTIONS	CITY OF ROCKVILLE, WASHINGTON GROVE
TIMEFRAME	CONTINUOUS
STAPLEE PRIORITY	MEDIUM
STATUS (CARRIED OVER OR NEW)	CARRIED OVER

Mitigation Action 1.2.2**DEVELOP PUBLIC AWARENESS CAMPAIGN INFORMING RESIDENTS OF THE POTENTIAL IMPACT OF HIGH WINDS DUE TO SEVERE THUNDERSTORMS**

RESPONSIBLE DEPARTMENT	CHEVY CHASE, SECTION 5
ANTICIPATED COST	\$1,500
EXISTING & POTENTIAL FUNDING SOURCES	MUNICIPAL FUNDS, FEMA HMA FUNDS
RESPONSIBLE JURISDICTION	CHEVY CHASE, SECTION 5
ADDITIONAL JURISDICTIONS	CHEVY CHASE, SECTION 3, MONTGOMERY COUNTY
TIMEFRAME	1 YEAR
STAPLEE PRIORITY	MEDIUM
STATUS (CARRIED OVER OR NEW)	CARRIED OVER

Mitigation Action 1.2.3**PUBLIC OUTREACH FOR THE USE OF THE ALERT MONTGOMERY SYSTEM**

RESPONSIBLE DEPARTMENT	MONTGOMERY COUNTY OEMHS
ANTICIPATED COST	\$5,000
EXISTING & POTENTIAL FUNDING SOURCES	COUNTY FUNDS
RESPONSIBLE JURISDICTION	MONTGOMERY COUNTY
ADDITIONAL JURISDICTIONS	CHEVY CHASE, SECTION 3, CITY OF ROCKVILLE, WASHINGTON GROVE

CHAPTER 4**HAZARD MITIGATION GOALS, OBJECTIVES, AND STRATEGY****Mitigation Action 1.2.3****PUBLIC OUTREACH FOR THE USE OF THE ALERT MONTGOMERY SYSTEM**

TIMEFRAME	CONTINUOUS
STAPLEE PRIORITY	MEDIUM
STATUS (CARRIED OVER OR NEW)	CARRIED OVER

Mitigation Action 1.2.4**COORDINATE WITH STATE HIGHWAY ADMINISTRATION AND LOCAL OFFICIALS TO ENSURE EMERGENCY ROUTES AND MAJOR ROADS ARE CLEARED OF DEBRIS AND DOWNED WIRES**

RESPONSIBLE DEPARTMENT	MONTGOMERY COUNTY OEMHS
ANTICIPATED COST	STAFF TIME AND RESOURCES
EXISTING & POTENTIAL FUNDING SOURCES	COUNTY FUNDS
RESPONSIBLE JURISDICTION	MONTGOMERY COUNTY
ADDITIONAL JURISDICTIONS	N/A
TIMEFRAME	CONTINUOUS
STAPLEE PRIORITY	HIGH
STATUS (CARRIED OVER OR NEW)	CARRIED OVER

New Mitigation Action 1.2.5**REPLACEMENT OF EMERGENCY POWER GENERATOR FOR ROCKVILLE MAINTENANCE AND EMERGENCY OPERATIONS COMPLEX**

RESPONSIBLE DEPARTMENT	CITY OF ROCKVILLE, DEPARTMENT OF PUBLIC WORKS
ANTICIPATED COST	TBD
EXISTING & POTENTIAL FUNDING SOURCES	FEMA HMA, CAPITAL BUDGET
RESPONSIBLE JURISDICTION	CITY OF ROCKVILLE
ADDITIONAL JURISDICTIONS	NONE
TIMEFRAME	5 YEARS
STAPLEE PRIORITY	MEDIUM
STATUS (CARRIED OVER OR NEW)	NEW

New Mitigation Action 1.2.6**INSTALL EMERGENCY POWER GENERATOR AT GLENVIEW**

RESPONSIBLE DEPARTMENT	CITY OF ROCKVILLE, DEPARTMENT OF PUBLIC WORKS
ANTICIPATED COST	TBD
EXISTING & POTENTIAL FUNDING SOURCES	FEMA HMA, CAPITAL BUDGET
RESPONSIBLE JURISDICTION	CITY OF ROCKVILLE
ADDITIONAL JURISDICTIONS	NONE
TIMEFRAME	5 YEARS
STAPLEE PRIORITY	MEDIUM
STATUS (CARRIED OVER OR NEW)	NEW

COMPLETED, CARRIED OVER, DELETED, OR NEW ACTION STEPS FROM THE 2013 PLAN

Table 4-2: Updated Actions for Montgomery County – Severe Storms

2013 ACTION	2018 UPDATE ACTION	STATUS	NOTES
Install uninterruptible power supplies on critical electronic equipment in County and municipal facilities	Carried Over	Ongoing	Maintenance facilities, HQ, and Satellite facilities to protect resources and provide communication capabilities Washington Grove has installed uninterruptible power supplies on most electronic equipment, few items left to address
Coordinate with the MD State Highway Administration to provide back-up power/generators for all major State roads	Carried Over	Ongoing	
Install back-up generators for the Potomac Water Treatment facility – A Washington Suburban Sanitary Commission Facility	Carried Over	Ongoing	
Educate the public on how to protect property and residential electrical systems	Carried Over	Ongoing	Can be supported through outreach from power companies
Purchase an early warning system to alert the public to take shelter	Delete	Complete	Alert Montgomery
Purchase emergency generators for critical facilities	Carried Over	Ongoing	Needed to maintain capability for equipment repair; Washington Grove recently procured backup emergency generator for Town Hall; generator delivered and awaiting installation
Tree branch/brush clearance and limit how close vegetation can be planted near/beneath power lines	Carried Over	Ongoing	Washington Grove constantly evaluates new plantings relative to power lines; excellent cooperation with Pepco (and their contractor) regarding trimming and removing vegetation threatening power lines
Develop a public awareness campaign informing residents of the potential impact of high winds due to severe thunderstorms	Carried Over	Ongoing	
Public outreach for the use of the Alert Montgomery System	Carried Over	Ongoing	Refresh the communication plan; Washington Grove continues outreach to Town residents regarding Alert Montgomery while exploring improvements to Grove Alert.
Coordinate with State Highway Administration and local officials to	Carried Over	Ongoing	Washington Grove has procured additional equipment for use by Town Maintenance to help ensure internal roadways are cleared of

Table 4-2: Updated Actions for Montgomery County – Severe Storms

2013 ACTION	2018 UPDATE ACTION	STATUS	NOTES
ensure emergency routes and major roads are cleared of debris and downed wires			snow, ice, and debris during winter storms and severe storms
N/A	Replacement of emergency power generator for Rockville Maintenance and Emergency Operations Complex	New	
N/A	Install emergency power generator at Glenview	New	

WINTER STORMS MITIGATION STRATEGY**IDENTIFICATION AND ANALYSIS OF RANGE OF MITIGATION OPTIONS**

The Montgomery County Mitigation Planning Committee considered a range of mitigation options for the Winter Storms Mitigation Strategy.

EXISTING POLICIES, REGULATIONS, ORDINANCES, AND LAND USE

Standard building codes can provide Montgomery County with reasonable guidance for development throughout the unincorporated and incorporated areas. However, contractors and builders should be aware of winter hazards such as extreme cold, high winds, and snow loads that can result from winter weather.

NEW BUILDINGS AND INFRASTRUCTURE

As development grows in the County and its municipalities, it will be a priority to improve the roads, utilities, and stormwater management systems in the area. Any structures and infrastructure built should be considered vulnerable to severe winter weather. New structures and infrastructure built in Montgomery County should take into account snow loads when constructed, and it may be a case of going above and beyond what current codes require.

Montgomery County Code, Chapter 8, Buildings, adopts the ICC International Building Code (IBC) as the county's basic building code. The IBC regulates construction materials and methods for all structures except one- and two-family dwellings. These buildings are covered by the International Residential Code (IRC). The IBC and IRC are kept current through an Executive Regulation process. These codes establish building criteria that resists damage to natural hazards. Pre-existing buildings do not have to meet new requirements except for new additions and complete rebuilds. This leaves older buildings less resistant to damage from natural hazards.

EXISTING BUILDINGS AND INFRASTRUCTURE

The county's entire structural inventory is vulnerable to winter storms. Winter storms in Montgomery County cause widespread impacts, with the greatest threat to public safety occurring on the major roads and highways. Power outages caused by snow, ice, and wind accompanied by cold temperatures create needs for additional shelter. Montgomery County's priority is to continue operation of existing buildings and infrastructure, especially critical facilities and services like emergency services and hospitals in times of severe winter weather and winter storms.

MITIGATION ACTION PLAN

Mitigation Action 2.1.1*

CONTINUE TO RESEARCH AND PROVIDE ALTERNATIVE MEASURES TO NOTIFY INDIVIDUALS WITH DISABILITIES
OF WINTER EMERGENCIES

RESPONSIBLE DEPARTMENT	MONTGOMERY COUNTY OEMHS
ANTICIPATED COST	STAFF TIME AND RESOURCES
EXISTING & POTENTIAL FUNDING SOURCES	COUNTY FUNDS
RESPONSIBLE JURISDICTION	MONTGOMERY COUNTY
ADDITIONAL JURISDICTIONS	CHEVY CHASE, SECTION 3, CITY OF ROCKVILLE, TAKOMA PARK
TIMEFRAME	CONTINUOUS
STAPLEE PRIORITY	HIGH
STATUS (CARRIED OVER OR NEW)	CARRIED OVER

*Action originally from 2007 Plan

Mitigation Action 2.1.2

PROVIDE SHELTERS FOR BOTH RESIDENTS AND ANIMALS DURING SEVERE WINTER WEATHER

RESPONSIBLE DEPARTMENT	MONTGOMERY COUNTY OEMHS, TAKOMA PARK
ANTICIPATED COST	TBD
EXISTING & POTENTIAL FUNDING SOURCES	COUNTY FUNDS, MUNICIPAL FUNDS
RESPONSIBLE JURISDICTION	MONTGOMERY COUNTY, TAKOMA PARK
ADDITIONAL JURISDICTIONS	CITY OF ROCKVILLE
TIMEFRAME	CONTINUOUS
STAPLEE PRIORITY	MEDIUM
STATUS (CARRIED OVER OR NEW)	CARRIED OVER

Mitigation Action 2.1.3

PROVIDE 4WD VEHICLES FOR LAW ENFORCEMENT PERSONNEL DURING HEAVY SNOW ACTIVITY

RESPONSIBLE DEPARTMENT	MONTGOMERY COUNTY DOT/POLICE
ANTICIPATED COST	SIX UNITS AT \$25,000 EACH
EXISTING & POTENTIAL FUNDING SOURCES	COUNTY FUNDS
RESPONSIBLE JURISDICTION	MONTGOMERY COUNTY
ADDITIONAL JURISDICTIONS	CHEVY CHASE, SECTION 3
TIMEFRAME	TWO UNITS PER YEAR FOR 3 YEARS
STAPLEE PRIORITY	MEDIUM
STATUS (CARRIED OVER OR NEW)	CARRIED OVER

COMPLETED, DEFERRED, DELETED, OR NEW ACTION STEPS FROM THE 2013 PLAN

Table 4-3: Updated Actions for Montgomery County - Winter Storms

2013 ACTION	2018 UPDATE ACTION	STATUS	NOTES
Continue to research and provide alternative measures to notify individuals with disabilities of winter emergencies*	Carried Over	Ongoing	
Provide shelters for both residents and animals during severe winter weather	Carried Over	Ongoing	Assess capacity of sheltering across the county, is it adequate? Use of other agency spaces?
Provide 4WD vehicles for law enforcement personnel during heavy snow activity	Carried Over	Ongoing	Is fleet coverage adequate?

*Action originally from 2007 Plan