

**Community Rating System
Activity 510 (Floodplain Management Planning)**

Progress Report on Implementation of Credited Plan

Date this Report was Prepared: **October 1, 2019**

Name of Community: Town of Ocean City, MD

Name of Plan: Ocean City, Maryland 2017 Hazard Mitigation Plan

Date of Adoption of Plan: May 1, 2017

5 Year CRS/HMP Expiration Date: ~~April 1, 2022~~

1. How can a copy of the original plan or area analysis report be obtained:
A copy of the adopted plan / progress report may be found on the Town website at: <https://oceancitymd.gov/oc/departments/emergency-services/> , or a copy may be requested in person at the Department of Planning and Community Development.
2. Describe how this progress report was prepared and how it was submitted to the governing body, released to the media, and made available to the public:
The HMP Actions were reviewed and incorporated into the Comprehensive Plan update in 2017, reviewed and coordinated for potential grant application assistance, and updated by City departments. Presentation the Mayor and City Council at a regular work session and advertisement on the Town Website
3. Provide a description of the implementation of each recommendation or action item in the action plan or area analysis report, including a statement on how the project was implemented or not implemented during the previous year:

See Attached
4. Discuss why any objectives were not reached or why implementation is behind schedule:
Incremental progress with coordination of partners has resulted in phased implementation as grants and municipal funding is available.
5. What are the recommendations for new projects or revised recommendations?
*-Incorporate State mandated Nuisance Flooding Plan (**due October 2020**) into overall Floodplain Management Planning through the HMP Action items.
-Update Hazard Mitigation Plan to adopt State/Worcester County Hurricane Evacuation Zones **and coordinate with 2019 Worcester County HMP Update**
-Revise Hazard Mitigation Plan actions to incorporate major storm event 'after action' report recommendations
-Review Recommendations for Future Improvements provided by FEMA in the October 6, 2017 HMP approval letter*

There are currently ten (10) existing Mitigation Action Items that were identified in the *2011 Ocean City, Maryland All-Hazard Mitigation Plan*. These projects were developed from the mitigation action items that were identified by the 2011 HMPC. The table below lists the ten (10) 2011 projects and the associated 2018 status.

Table 12-1: Mitigation Project Status

2011 Mitigation Project	2018 Status
<p>CERT Training <i>CERT Training classes are conducted annually.</i></p>	<p>Ongoing</p>
<p>Comprehensive Emergency Operations Plan <i>Elements of the Plan Update have been developed. Specifically, designation of Response Division Areas and mapping. Response Area Divisions were used as Mitigation Planning Areas during the 2016 Plan Update. Also, Incident management information including response, recovery, mitigation, and preparedness were updated.</i></p>	<p>Current & Revised as Required</p>
<p>Develop Post-Disaster Plan – Comprehensive Recovery Plan</p>	<p>The last Recovery Committee meeting was held in May 2019. Action Items include: Complete Recovery Support Function Elements to meet State and Federal policy requirements for the mandated Recovery Plan. 90 day action plan initiated in August 2019 by CM and Emergency Management staff.</p>
<p>Property Protection Activities <i>Project 1: Bering Road – elevation project that is complete</i> <i>Project 2: Tide Gate Project – Phase 2 in process</i> <i>Project 3: Beach Patrol Elevation Project – completed 2015</i></p>	<p>Project 1: Complete</p> <p>Project 2: Phase 1 of the storm drain outfall check valve project is complete and its performance is being evaluated. Phase 2 is scheduled for material bid in March, labor bid in June and installation in late summer/fall. (Installation of check valves are a long lead item).</p> <p>Project 3: Complete</p>
<p>Datum Markers/Benchmarks <i>Ocean City installed over forty permanent benchmarks. These benchmarks are available on the website and may be viewed using adobe viewer.</i></p>	<p>Complete. Current Information is updated on the National Geodetic Survey Explorer website : https://www.ngs.noaa.gov/NGSDDataExplorer/</p>

<p>Database to Forecast Structure Vulnerability</p>	<p>2017 Hazard Mitigation Plan included the preparation of a Risk and Vulnerability Assessment including a HAZUS analysis of critical infrastructure and structure vulnerability. Data collection and inventory of Elevation Certificates provide a database of structure elevations for future risk and mitigation actions regarding possible street elevation projects</p> <p>Current evaluation of FloodIQ online website for use in vulnerability forecasting with Nuisance Flooding Plan</p>
<p>Policy to Increase Elevation of Streets in areas where feasible during local improvements</p>	<p>Ongoing Activity. Mayor and City Council requested on May 1, 2017 for the Planning and Zoning Department to return within 6 month period with building code revision recommendations mandating lot elevations in first -to -flood areas to allow enforcement of the Hazard Mitigation Plan and ultimately elevate streets in first -to -flood areas. Two staff reports were presented at Council work sessions with a request to extend consideration until October 2019-2020 to coincide with a new State mandate to prepare a 'Nuisance Flooding Plan' for the community.</p>
<p>Preparation and Implementation of the Maryland's Coastal Bays Program- Comprehensive Conservation and Management Plan. <i>Ocean City is an active member in the Maryland Coastal Bay Program.</i></p>	<p>Ongoing Activity. Town of Ocean City staff participated with the Maryland Coastal Bays Program in the preparation and adoption of the 2015-2025 Comprehensive Conservation & Management Plan for Maryland's Coastal Bays. Staff and Council representative serve on the MCBP Implementation and Policy Committees.</p> <p>Participate in EPA Climate Ready Estuaries program for coastal risk based adaptation planning</p>
<p>Public Information Activities Advisement <i>Community Newsletter advertising CERT training and Hurricane Preparedness Workshops annually. These programs are also advertised on County website.</i></p>	<p>Complete and Ongoing Activity</p>
<p>Beach Sand Replenishment <i>Dune sustainability and management is an ongoing project.</i></p>	<p>Current Phase completed - the beach and dune system were damaged during a series of storms including winter storm Jonas in early 2016. The dunes were fully restored by the Maryland Dept of Natural Resources in May 2016 and the beach and berm system was fully restored including 4 years of advance nourishment by the US Army Corps of Engineers in the fall of 2017</p>

ACTION	LOCATION/ RESPONSIBLE ENTITY	GOALS	TIMEFRAME	HAZARD	RATING	2018 IMPEMETATION UPDATE
PUBLIC EDUCATION AND AWARENESS: Actions to inform and educate citizens, elected officials, and property owners about potential ways to mitigate for hazards that can occur in the County.						
Virus Outbreak – Protective Measures: Clothing, Education, Monitoring	Emergency Management		On-Going	Epidemic	LOW	Ongoing maintenance of training and supplies
Severe Weather Alert and Awareness – Rapidly Developing Weather Event Notification	Beach Patrol/Police Department/ Communications		6 Months	High Wind/ Thunderstorm	HIGH	Alerts provided by EM staff with National Weather Service reports. Public outreach for preparedness to AARP, HOAs, HMRA
NATURAL RESOURCE PROTECTION: Actions that, in addition to minimizing hazard losses also preserve or restore the functions of natural protection systems.						
Dune Grass Management Plan (& Native Plants) – Annual inspection and replacement of dune grass and vegetation, fertilization, and application of minerals, etc., as needed.	Public Works, and State Agency contract		1 Year	Flooding	MEDIUM	Ongoing program managed by Town Environmental Engineer with assistance from volunteer network on annual basis
EMERGENCY SERVICES: Actions that protect people and property during and immediately after a disaster or hazard event. Services include warning systems and emergency response services.						
Radio System Upgrade	Ocean City Communications		Complete	All	MEDIUM	Update radio system for Federal P-25 std for interoperability in event of disaster
Extreme Temperatures: Heat Warnings – 3 Days or more	Emergency Management		On-Going	Extreme Heat	MEDIUM	As necessary Beach Patrol provides safety warning and advisories
STRUCTURAL PROJECTS: Actions that involve the construction of structures to reduce the impact of a hazard event.						
Secure Area of 33 rd Street – Investigate Methods to Prevent Breach	Public Works		TBD	Coastal Hazards	MEDIUM	Area strengthened by incremental new development construction to code
Storm Surge – Implementation of Inlet Dredging and Beach Nourishment/Dune Construction to Minimize Strom Damage	NPS Town of Ocean City – Engineering Worcester County		Ongoing	Coastal Hazards	HIGH	Current Phase completed - the beach and dune system were damaged during a series of storms including winter storm Jonas in early 2016. The dunes were fully restored by the Maryland Dept of Natural Resources in May 2016 and the beach and berm system was fully restored including 4 years of advance nourishment by the US Army Corps of Engineers in the fall of 2017

2016 MITIGATION ACTIONS ITEMS & RATINGS

During the 2017 Plan Update, the following mitigation actions were developed. Action item were ranked “High”, “Medium” or “Low”. Note - Timeframe Definitions: Short-term is less than 0-2 years and long-term is 2-5 years.

Table 12-2: 2016 Mitigation Action Items & Ratings

ACTION	LOCATION/ RESPONSIBLE ENTITY	GOALS	TIMEFRAME	HAZARD	RATING	2018 IMPLEMENTATION UPDATE
PREVENTION: Government administrative or regulatory actions or processes that influence the way land and buildings are developed and built. These actions also include public activities to reduce hazard losses.						
Roadway Flooding – Roadway Flooding During Heavy Rain Events (Southbound) Coastal Highway @ Roadway 100 to 91 st & 130-136 th (Road Elevations and Drainage Issues) Standing Water, History of Flooding. Storm Drains located on straight need to be increased in size or multiple storm drains installed.	Town of Ocean City/State Highway Administration		TBD	Flooding	HIGH	Coordinated project underway with SHA to complete cleaning and repair of stormwater inlets and pipes on state roads – collapsed pipes in problem areas will require additional project/budget enhancements. Town streets repaving projects regularly replace and upgrade stormwater infrastructure under a phased implementation program
PROPERTY PROTECTION: Actions that involve the modification of existing critical and public facilities, buildings, structures, and public infrastructure to protect them from hazards.						
65 th /Bayside Flooding, Heavy Rain (Public Works Complex) – Elevate Street, Improve Drainage, Bus Garage	Town of Ocean City/State Highway Administration		TBD	Flooding	HIGH	Street elevation completed in 2018, phase 2 critical infrastructure improvements in progress at the 65th Street Public Safety/ Public Works Campus
Property Protection – Transformer Damage, No Power. Higher Elevation or Relocate Transformers	Public Works, Engineering		TBD	Coastal Hazards	HIGH	Town of Ocean City policy for replacing city owned bulkheads has been to set the elevation at or above the adopted FEMA Base Flood Elevation Delmarva Power continues to complete reliability improvement projects in Town
Protection from Lightning Strikes – Lightning Arrestor System – Install Grounding Devices on Towers. Install Surge Protection Devices on Outreach to Condo. Information for Public Safety on Beach Patrol	Town of Ocean City Emergency Management/Risk Management		On-Going	Coastal Hazards	MEDIUM	TBD



FEMA

October 6, 2017

The Honorable Richard Meehan
Mayor, Town of Ocean City
301 Baltimore Avenue
Ocean City, Maryland 21842

Municipality: Town of Ocean City
County: Worcester, MD
Adoption Date: 5/1/2017
Date Approved: 5/1/2017
Expiration Date: 4/30/2022

Re: Hazard Mitigation Plan Approval

Dear Mayor Meehan:

The Hazard Mitigation Plan for your community has been approved by the Federal Emergency Management Agency (FEMA). Your community is now eligible to apply for federal disaster assistance until the plan expires.

The plan was reviewed and approved based on the criteria contained in 44 Code of Federal Regulations, Part 201, as authorized by the Disaster Mitigation Act of 2000 (DMA2K). These criteria address the planning process, risk assessment (including hazard identification), mitigation strategy and plan maintenance process requirements. Enclosed is a list of specific recommendations for improving the plan. FEMA encourages communities to improve and update their plans as well as take mitigation actions by implementing strategies within the plan. Some resources to assist you include:

Mitigation Ideas: A Resource for Reducing Risk to Natural Hazards
<http://www.fema.gov/library/viewRecord.do?id=6938>

Integrating Hazard Mitigation Into Local Planning: Case Studies and Tools for
Community Officials <http://www.fema.gov/library/viewRecord.do?id=7130>

If you have questions, please contact Chas Eby, Chief Strategy Officer, at 410-274- 6690. I commend you for your dedication demonstrated in preparing and adopting a strategy to reduce future disaster losses.

Sincerely,

A handwritten signature in blue ink that reads "Janice P. Barlow".

Janice P. Barlow
Acting Director, Mitigation Division

Enclosure

cc: Chas Eby, Chief Strategy Officer, MEMA
Amanda Lewis, Secretary, Department of Emergency Services, Town of Ocean City

Recommendations for Future Improvements
Local Hazard Mitigation Plan
for
Town of Ocean City, Maryland
Plan Approval Date: 5/1/2017

1. The committee should consider the use of social media sources to promote public awareness of the plan, and seek public comments through these media sources.
2. The planning committee should be increased to include other community organizations and interest such as watershed organizations, business owners, and other entities to provide additional information when the plan is updated next.
3. The lead for the updated plan should attempt to gain more participation from the many stakeholders involved in the planning process. More specifically, attendance by jurisdictions should be improved at committee meetings.
4. The planning team needs to provide specific information on how each jurisdiction participated in the updating of the plan, as well as providing specific information on what they provided for the updated plan.
5. The updated plan should include any documentation of the committee meetings that occurred during the five years of the plan.
6. The updated plan should include any data developed in the five years since the plan was last updated. Information could include lowest floor elevation of vulnerable structures, and other information that could be used in mitigation grant applications. This information could be kept as an appendix to the plan.
7. The updated plan needs to clearly document the status of any mitigation actions that have taken place during the five years of the plan. The committee should consider a narrative that celebrates the success of mitigation in the community.
8. The updated plan should include information on specific projects that the jurisdiction would like to implement. This information could be placed in an appendix that includes specific information on structures. Due to its sensitive nature, this information would not be considered public information, but would be provided to the State and Federal governments.
9. When the plan is updated next, a better integration with existing planning mechanisms needs to be included. For example, the County comprehensive plan should be analyzed to determine how this all hazard Mitigation Plan can be incorporated into that existing planning mechanism and how the comprehensive plan can be incorporated into the local hazard Mitigation Plan.
10. In the next plan update, the plan should include more in-depth information on how the NFIP is managed in each of the jurisdictions. Examples could include: process to ensure new construction is compliant with the local floodplain ordinances; how residents are assisted in mapping issues and how substantially damaged structures are managed to ensure compliance with the latest floodplain ordinance.