

SUMMARY NOTES OF THE OCTOBER 5, 2016 MEETING OF THE CITY OF MILWAUKEE HAZARD MITIGATION PLAN LOCAL PLANNING TEAM

INTRODUCTION

The October 5, 2016 meeting of the City of Milwaukee Hazard Mitigation Plan Local Planning Team was convened at the Frank P. Zeidler Municipal Building at 1:00 p.m. The meeting was called to order by Kurt Sprangers, Stormwater Manager, City of Milwaukee Department of Public Works. Attendance was taken by circulating a sign-in sheet.

In attendance at the meeting were the following individuals:

Local Planning Team Members

Kurt Sprangers, Chair	Stormwater Manager, City of Milwaukee Department of Public Works
Steve Fronk	Director, City of Milwaukee Office of Emergency Management and Homeland Security
Joseph E. Boxhorn, Secretary	Senior Planner, Southeastern Wisconsin Regional Planning Commission
Evan Corbeil	HERC Coordinator, Southeast Wisconsin Healthcare Emergency Readiness Coalition
Jeffrey Cross	Engineering Assistant, Southeastern Wisconsin Regional Planning Commission
Karen Dettmer	Coordination Manager, City of Milwaukee Department of Public Works
Kurt Drezek	Sergeant, City of Milwaukee Police Department
Patrick Elliott	Senior Project Manager, Milwaukee Metropolitan Sewerage District
Laura K. Herrick	Chief Environmental Engineer, Southeastern Wisconsin Regional Planning Commission
Jim Ley	Deputy Chief, City of Milwaukee Fire Department
Chris Miley	Coordinator, Milwaukee County Office of Emergency Management
Leah Redding	Coordinator, Milwaukee County Office of Emergency Management
Ed Richardson	Principal Planner, City of Milwaukee Department of City Development
Jose R. Rodriguez	Emergency Response Planning Coordinator, City of Milwaukee Health Department
Julie Schneider	Manager of Safety, Security and Risk Management, Milwaukee County Transit System
Erick Shambarger	Director of Environmental Sustainability, City of Milwaukee Environmental Collaboration Office
Carl Stenbol	Emergency Management Division Administrator, Milwaukee County Office of Emergency Management
Tim Thur	Infrastructure Administration Manager, City of Milwaukee Department of Public Works

Mr. Sprangers welcomed all attendees to the meeting. He noted that the City of Milwaukee hazard mitigation plan is required to be updated every five years, and that this would be the second update to the original plan. He informed the planning team that he anticipates that there will be four meetings of the team throughout the plan updating process. At Mr. Sprangers' request, the team members introduced themselves.

OVERVIEW OF HAZARD MITIGATION AND HAZARD MITIGATION PLAN UPDATING PROCESS

Mr. Sprangers introduced Joseph Boxhorn, Senior Planner, Southeastern Wisconsin Regional Planning Commission (SEWRPC). Mr. Boxhorn presented an overview of hazard mitigation and the hazard mitigation plan updating process.

[Secretary's Note: A copy of Mr. Boxhorn's presentation is attached herein as Exhibit A.]

BACKGROUND ON THE SECOND UPDATE OF THE CITY OF MILWAUKEE ALL HAZARD MITIGATION PLAN

Mr. Boxhorn presented background information on the initial hazard mitigation plan and the first update to the plan. He noted that the initial plan was completed in 2005 and the first plan update was completed in 2012. He stated he anticipates that the Local Planning Team will have four meetings during the plan updating process. He added that there will be two rounds of public meetings during the planning period. Mr. Boxhorn informed team members that they are not required to attend the public meetings, though they are welcome to participate.

Mr. Boxhorn stated that a project webpage has been created on the SEWRPC website. He indicated that draft chapters of the plan report, meeting materials, presentations, and summary notes from planning team meetings will be available on this page. He added that a comment screen is also available on this webpage through which members of the planning team and the public may submit questions or comments on the draft plan.

[Secretary's Note: As previously noted, Mr. Boxhorn's presentation is attached herein as Exhibit A. The SEWRPC webpage for hazard mitigation planning may be accessed at: <http://www.sewrpc.org/HMP>]

Mr. Shambarger asked whether any projects have been carried out since the completion of the first plan update. Mr. Boxhorn replied that the Milwaukee Fire Department (MFD) has conducted educational programs related to fire safety. He noted that these efforts would be documented in the new plan. Mr. Thur added that recent flood control efforts conducted by the Milwaukee Metropolitan Sewerage District (MMSD) have also implemented elements of the plan.

Ms. Dettmer asked whether the hazard mitigation plan will assist the City of Milwaukee in receiving funding from the U.S. Department of Housing and Urban Development (HUD). Mr. Thur replied that in the past the plan has helped the City to receive HUD funding.

Mr. Boxhorn stated that MMSD formally adopted the previous update of the plan. He added that he would like MMSD to adopt this current update, noting that by adopting the update the District would qualify for funding through Federal grant programs related to hazard mitigation.

Mr. Rodriguez asked if the plan would help the City to be eligible to receive hazard mitigation funding under Section 406 of the Robert T. Stafford Disaster Relief and Emergency Assistance Act (Stafford Act). Mr. Boxhorn replied that the approved mitigation plan would help to make the City of Milwaukee eligible to receive funding through the Hazard Mitigation Grant Program (HMGP), the Flood Mitigation Assistance (FMA) program, and the Pre-Disaster Mitigation (PDM) program.

[Secretary's Note: Section 406 of the Stafford Act provides disaster relief funding (public assistance) to state and local units of government in the event of a Presidential disaster declaration. Having an approved local hazard mitigation plan is not a requirement to receive funding under this program. In some instances, funding received through Section 406 may be used for hazard mitigation projects.]

Ms. Schneider asked if a particular project that the City seeks to pursue is not explicitly stated in the plan, would the Federal Emergency Management Agency (FEMA) find the pursuit of the project problematic. Mr. Boxhorn replied that FEMA would not find the pursuit of the project problematic as long as the project is related to one of the hazards addressed by the plan.

Ms. Dettmer inquired if the current plan addresses climate change. Mr. Boxhorn replied that the current plan does not address climate change, and that climate change would be added to the risk analysis section of the plan during the update process. Mr. Rodriguez stated that the City Health Department has been studying potential public

health effects of climate change. Mr. Boxhorn asked whether he could be provided materials related to these efforts.

[Secretary's Note: Subsequent to the meeting, Mr. Rodriguez provided SEWRPC staff two City of Milwaukee Health Department presentations related to climate change.]

Ms. Dettmer noted that addressing climate change in the plan could help the City of Milwaukee to receive grants from the Environmental Protection Agency. Mr. Shambarger indicated that he would like for the plan to extensively address climate change and flooding, as well as stormwater management.

HAZARD AND VULNERABILITY ASSESSMENT EXERCISE

Mr. Boxhorn stated that as part of the hazard and vulnerability analysis for the plan, it will be necessary to decide which hazards will be addressed by the plan. Mr. Boxhorn provided members of the Local Planning Team with a hazard and vulnerability assessment tool and instructions for completing the tool. He explained that the tool is a modified version of a tool developed by Kaiser Permanente for assessing the risks faced by healthcare facilities.

Mr. Boxhorn asked the members of the Local Planning Team to complete the hazard and vulnerability assessment (HVA) tool. He explained that the results of this exercise would be used to help determine which hazards are addressed by the hazard mitigation plan update. Local Planning Team members completed the HVA tool.

Mr. Stenbol and Mr. Corbeil informed team members that the City of Milwaukee also conducts a hazard vulnerability assessment from a health perspective, and that data stemming from the exercise is available. Mr. Boxhorn replied that SEWRPC would be interested in obtaining the results from the health assessment.

[Secretary's Note: SEWRPC staff will contact Mr. Stenbol to further discuss the health assessment and available data originating from the assessment.]

ADJOURNMENT

There being no further business, the meeting was adjourned by unanimous consent at 2:20 p.m.

CAPR-282-3 SUMMARY NOTES C MILWAUKEE HMP LPT MTG OCTOBER 5 2016 (00234351).DOC
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Exhibit A: Boxhorn presentation (Docs #232977)



What is Mitigation?

- “Mitigation is any sustained action taken to eliminate or reduce the long-term risk to human life and property from natural and technological hazards” – FEMA definition
- Constructive actions to reduce damages prior to the next disaster



What is Mitigation?

- Mitigation is not
 - Emergency response
 - Crisis management
 - Disaster preparation and recovery
- Mitigation focuses on reducing the impacts of disasters when they occur



Mitigation Breaks the Disaster Cycle



Why Do We Mitigate?



- Disasters cost society too much
- State and federal aid insufficient
- Can prevent future damages
- Less impact and speed response and recovery process
- Mitigation happens at the local level

Why Do We Mitigate?

Nationwide Trends

- \$80 Billion 2004-2011 (GAO) responding to disasters
- \$6 Billion per year in flood damages
- Costs continue to rise
- People continue to build and live in high-risk areas



Why Do We Mitigate?

In Wisconsin



- \$3 billion in disaster-related damages last 3 decades
- 12 Federal Disaster Declarations in the 90's compared to 6 in the 80's
- 2000, 2001, two in 2002, 2004, 2007, 2008, two in 2010, 2011, 2012, 2013, 2016
- 2 snow emergencies (2000 and 2008)

Value of Mitigation



In 2005, the National Institute of Building Sciences found that for every \$1 spent on mitigation, \$4 are saved in avoided future damages

Examples of Mitigation Measures (mostly related to flooding)



Acquisition/Demolition



Communities acquire land, demolish structures, and keep the land in open space.

Images from Darlington, WI

Elevation



Elevation raises a structure out of the floodplain. Wisconsin has specific regulations to follow with elevation projects. See DNR for more information.

Images from Soldiers Grove, WI

Floodwall



Floodwalls can prevent water from inundating structures that cannot be elevated, relocated, or demolished.

Image from Darlington, WI

Community Safe Room



Community safe rooms built to FEMA-361 standards can withstand winds up to 250 MPH.

Image from Town of Dunn, WI

Stormwater Detention



Detention ponds can store stormwater runoff, decreasing flash flooding in urban areas.

Image from MMSD Stormwater Detention Project (Wauwatosa, WI)

Stormwater Management



Stream restoration allows watersheds to better manage flooding.

Image from Thiensville, WI

River Warning Systems



River warning systems installed on conservation dams to warn county officials about expected dam breaching.

Images from Vernon County

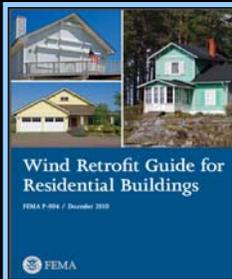
Other Projects



NOAA Weather Radios



Mobile Home Tie-Downs



Wind Retrofit Guide for Residential Buildings



Proper Landscaping

- Raise appliances and utilities
- Install back-flow valves
- Retrofit for wind resistance
- Education and public awareness
- Insurance (flood and sewer backup)
- Land use planning

Benefits of Mitigation

- Enhance recreation and tourism
 - Parks
 - Trails
- Increase community pride and quality of live
- Save tax dollars



Darlington, WI



Chaseburg, WI

Hazard Mitigation Planning



Disaster Mitigation Act of 2000

- Established a national disaster mitigation program
- Communities must have an approved hazard mitigation plan to be eligible to receive Federal funds through:
 - Hazard Mitigation Grant Program (HMGP)
 - Pre-disaster Mitigation Program (PDM)
 - Flood Mitigation Assistance Program (FMA)
- Plans must be reviewed and updated every five years

Disaster Mitigation Act of 2000

Vision of the Disaster Mitigation Act of 2000

- Communities will have all hazards mitigation plans that identify and prioritize cost-effective mitigation measures that can be implemented prior to a disaster or quickly after a disaster
- Having a plan would speed up the recovery process

Plan Components

1. Documentation of the planning process
2. Description of study area
3. Analysis of hazard conditions
4. Hazard mitigation goals and objectives
5. Hazard mitigation strategies
6. Plan adoption, implementation, and maintenance

Plan Components

1. Documentation of the Planning Process

- Chapter 1 and Appendix A
- The City must adopt the plan in order to be covered
- Public and adjacent communities must be given an opportunity to comment during the drafting stage

Plan Components

2. Description of Study Area – Chapter 2

- Demographic
- Surface waters
- Transportation
- Public facilities
 - Police facilities
 - Fire facilities
 - EMS facilities
- Related regulations and programs
- Land Use
- Lake Michigan Shoreline
- Flood hazard areas
- Utility systems
- Critical community facilities
- Hazardous material use and storage
- Emergency operation planning

Plan Components

3. Analysis of Hazard Conditions-Chapter 3

- Vulnerability and risk analysis for each covered hazard
 - Historical and recent incidents
 - Vulnerabilities and community impacts
 - Human lives and property damages
 - Potential for future changes in hazard condition

Plan Components

4. Hazard Mitigation Goals-Chapter 4

- Express what the plan is trying to achieve
- Ties the plan to other active plans
 - City comprehensive plan
 - Watershed plans
 - Park and open space plans
- Fairly general

Plan Components

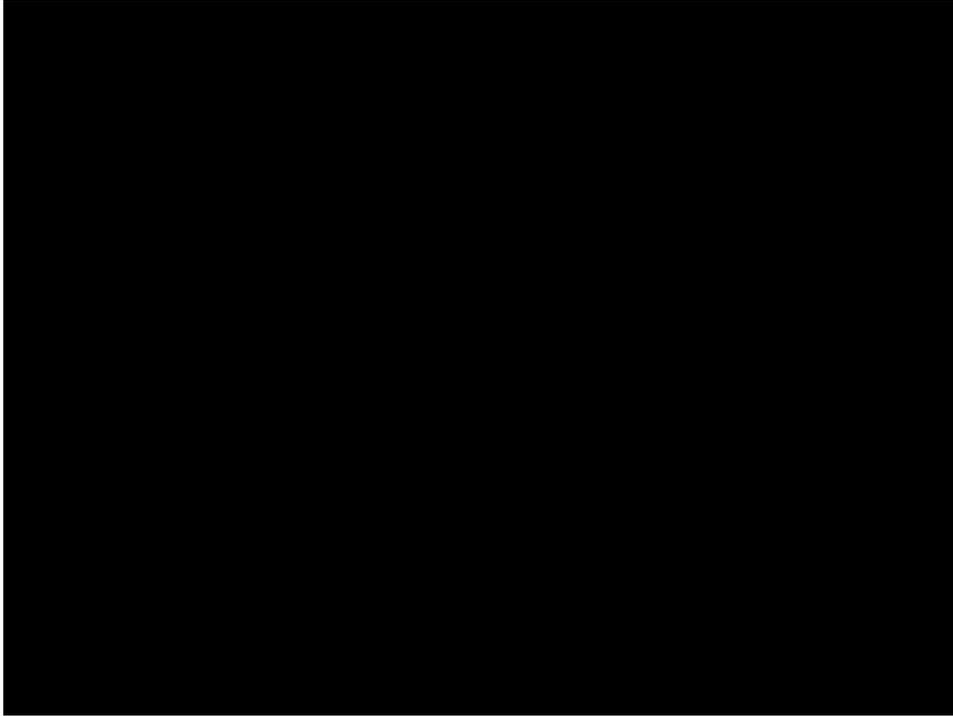
5. Hazard Mitigation Strategies-Chapter 5

- Develop a range of actions and projects to reduce the impacts of each hazard
 - Structural, nonstructural, educational
- Prioritize actions for implementation
- Identify responsible parties
- Examine costs and benefits
- Consider multi-jurisdictional aspects

Plan Components

6. Plan Adoption, Implementation, and Maintenance-Chapter 6

- The City must formally adopt the plan
- Detail available funding and technical assistance
- Monitoring of plan implementation
- Incorporation of the plan into existing planning mechanisms



City of Milwaukee All Hazards Mitigation Plan

- Initial study conducted 2003-2005
 - Report published 2005
- First update conducted 2011-2012
 - Report published 2012

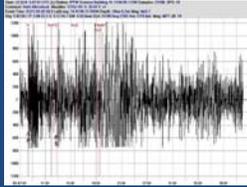


First Plan Update

- Reviewed and revised
 - Inventories
 - Goals
 - Vulnerability and risk analysis
 - Mitigation strategies
- Report published 2012

Natural Hazards Profiled in the Plan

(Required by FEMA)



Earthquake



Extreme Temperatures



Flooding and Stormwater Drainage Problems



Lake Michigan Coastal Hazards



Thunderstorms High Wind/Hail/Lightning



Tornado

Natural Hazards Profiled in the Plan

(Required by FEMA)



Winter Storms

Technological Hazards Profiled in the Plan

(Optional under FEMA rules)



Contamination/Loss
of Water Supply



Public Health
Emergencies



Major Fire or
Emergency Medical
Incident



Hazardous Material
Incidents



Terrorism

Plan Components to Review and Revise

- Review implementation activities
- Update inventories of natural and built features
- Review and reevaluate identification of hazards
- Update and reevaluate risk analysis
- Review and revise mitigation goals
- Review and revise mitigation strategies
- Update plan implementation and maintenance
 - Update potential funding sources

Local Planning Team Role

- Weigh in on hazard identification
- Review the plan chapters
- Help us get needed information
 - Recent and historical problems with hazards → Location, occurrence, damages
 - Recent projects, planned and contemplated projects, recent hazard-related outreach
 - Inventory data

Project Web Site

- <http://www.sewrpc.org/HMP>
 - Agendas and other meeting materials
 - Summary notes from meetings
 - Presentations
 - Draft chapters as they are completed
 - Comment screen
 - Other ways to send a comment
- Email to jboxhorn@sewrpc.org