

APPENDIX B PLAN PROCESS MATERIALS

Mitigation Work Group Meetings #1

Mitigation Work Group Meetings #2

Mitigation Work Group Meetings #3

Mitigation Work Group Meetings #4

Mitigation Work Group Meetings #5

Mitigation Work Group Meetings #6

Disaster Management Committee Meeting

Emergency Executive Board Meeting

Hazard Mitigation Work Group (HMWG) - Meeting #1

Seattle All Hazards Mitigation Plan – 5 Year Revision Process - Kick Off Meeting Agenda

Date/Time: Monday, January 27th, 2020 10:00AM-12:30 PM

Location: EOC Training Room, 105 5th Avenue S

Meeting Objectives:

- Introductions between stakeholders in Hazard Mitigation Work Group and OEM Staff
- Discuss purpose of hazard mitigation planning in context of FEMA guidelines and Emergency Management Accreditation Program (EMAP) certification
- Identify roles of Hazard Mitigation Work Group Members
- Familiarize members with 2019 Seattle Hazard Identification and Analysis (SHIVA)
- Review main elements of the current Seattle All Hazards Mitigation Plan
- Lay out plan revision schedule and action items to follow

Introductions 15 min	
Hazard Mitigation Planning: Purpose, Regulations, and Updates 20 min	<p>What is a Hazard Mitigation Plan and why do we have them?</p> <p>FEMA & EMAP plan requirements</p> <p>What is new and what has changed in context since the last plan</p>
Roles of HMWG Members 10 minutes	
Open Discussion 20 minutes	<p>Questions:</p> <ol style="list-style-type: none"> 1. What hazard vulnerabilities are you aware of regarding your department's assets, operations, and/or plans? 2. Are there other planning efforts that we should be aware of that connect to mitigation planning?
Break 10 minutes	
SHIVA 20 minutes presentation 10 minutes Q & A	<p>Highlights of the current Seattle Hazard Identification and Analysis (SHIVA) and changes since 2014</p>
Current Hazard Mitigation Plan 15 min	<p>Review the main elements of the 2015 – 2021 Seattle All Hazards Mitigation Plan</p>

<p>Open Discussion: Plan and Process 20 minutes</p>	<p>Questions: Plan</p> <ol style="list-style-type: none"> 1. How have you used this plan? 2. How can this plan be useful for you and your departments? <p>Questions: Process</p> <ol style="list-style-type: none"> 1. How can we increase participation and visibility of the plan within your organization? 2. How can this process be more meaningful for you and your departments?
<p>Action Items and Wrap Up 10 in</p>	<ul style="list-style-type: none"> ✓ Action Items: 1) Final updates & disposition of 2015-2021 projects; 2) Department Capability Updates – instructions to follow ✓ Doodle poll for second Hazard Mitigation Workgroup Meeting, anticipated to be in March ✓ Thanks for attending!

Hazard Mitigation Plan Process Outline:

- **Hazard Mitigation Work Group Meeting 2:** March 2020 specific date, location, and time TBD
- **Hazard Mitigation Work Group Meeting 3:** May 2020 specific date, location, and time TBD
- **Presentation of 2021 Plan for Disaster Mitigation Committee approval:** June 2020

Notes:

Hazard Mitigation Work Group 2020 Members:

Name	Department/Agency
Flossie Pennington	Arts and Culture
Devore, Jennifer	Budget Office
Kara Main Hester	Budget Office
Elliot, Jana	City Light
Chappell, Micah	Construction & Inspection
Sodt, Sarah	DON Historic Preservation
Stickel, Karl	Economic Development
Graff, Barb	Emergency Management
Lund, Erika	Emergency Management
McDonald, TJ	Emergency Management
Nelson, Laurel	Emergency Management
Schmit, Lucia	Emergency Management
Jarolimek, Elenka	FAS
Matsumoto, Julie	FAS
Scriver, Cody	Fire
Foley, Dan	Housing
Watson, Jill	Human Services Department
Dennis Reddinger	Libraries
TBD	OSE
Will Beatie	Parks & Recreation
Stevens, Scott	Parks & Recreation
Carroll, Patrice	Planning and Community Development

Davich, Kati	<i>Port of Seattle</i>
Houston, Addison	Public Health Seattle King County
Worcester, Ned	Public Utilities
Michael Godfried	Public Utilities (Resilience)
Crary, Jill	Seattle Center
Jared Cummer	<i>Seattle Housing Authority</i>
Eichhorn, Lawrence	Seattle IT
Kaku, Clinton	Seattle IT
TBD	Seattle Police Department - facilities
Benjamin Coulter	Seattle Public Schools
Quirk, Patti	Transportation

Seattle All Hazards Mitigation Plan – 5 Year Revision

Hazard Mitigation Work Group (MWG) Meeting #1 – Kick Off Meeting Notes

Hosted by: The Seattle Office of Emergency Management (OEM)

Date/Time: Monday, January 27th, 2020 10:00AM-12:30 PM

Location: EOC Training Room, 105 5th Avenue S

OBJECTIVES:

- Introductions between stakeholders in Hazard Mitigation Work Group and OEM Staff
- Discuss purpose of hazard mitigation planning within confines of FEMA guidelines and EMAP certification
- Identify roles of Hazard Mitigation Work Group Members and identify what they would like to take away from this process
- Familiarize members with 2019 Seattle Hazard Identification and Analysis (SHIVA) profile as well as any updates since the 2014 version
- Review main elements of the current Seattle All Hazards Mitigation Plan
- Lay out plan revision schedule and action items to come

AGENDA:

Meeting Item	Duration	Presenter/Facilitator
Introductions	15 minutes	Erika Lund, Seattle OEM
Hazard Mitigation Planning: Purpose, Regulations, and Updates	15 minutes	Erika Lund, Seattle OEM Barbara Graff, Seattle OEM
Roles of MWG Members	10 minutes	Erika Lund, Seattle OEM Barbara Graff, Seattle OEM
Open Discussion 1: Hazard Vulnerabilities	30 minutes	Erika Lund, Seattle OEM Danté DiSabatino, Seattle OEM
Break	10 minutes	-----
SHIVA 2018 Update	20 minutes	TJ McDonald, Seattle OEM
2015 Hazard Mitigation Plan	10 minutes	Erika Lund, Seattle OEM
Open Discussion 2: HM Planning Process	30 minutes	Erika Lund, Seattle OEM Danté DiSabatino, Seattle OEM
Action items and Wrap Up	5 minutes	Erika Lund, Seattle OEM

ATTACHMENTS:

1. Sign-in Sheets
2. Meeting Agenda
3. Power point presentations (PDF)

MEETING SUMMARY

Introductions

Introductions were made between Hazard Mitigation Work Group Members in attendance, including past involvement in this group and focus of current position.

Danté DiSabatino introduced as hazard mitigation planning intern assisting with plan update and stakeholder engagement. May follow up as point of contact throughout process through 1:1 conversations and meeting engagement.

Introductions of Hazard Mitigation Work Group 2020 Members outside OEM:

Michael Godfried (Seattle Public Utilities): *works on resilience efforts in SPU around wastewater systems. Previously was involved with the City of Everett's Hazard Mitigation Plan*

Dennis Reddinger (Seattle Public Libraries): *focuses on capital improvement projects for SPL*

Jana Elliott (Seattle City Light): *focuses on emergency management for SCL facilities, etc.*

Kara Main Hester (City Budget Office): *Doesn't have a background in hazard mitigation but will serve as an advocate and liaison with the City Budget Office*

Jill Watson (Seattle Human Services Department): *serves as the emergency management coordinator and has previously been involved in the last hazard mitigation planning group (2014)*

Jared Cummer (Seattle Housing Authority): *Asset Management coordinator overseeing and extensive emergency management plan*

Lawrence (Seattle IT): *has over 10 years of experience working with the city initially working with SDOT on their bridges. Currently working on IT mitigation strategies as they are moving to the cloud.*

Sarah Sodt (Department of Neighborhoods): *works in historic planning and has been a part of the last hazard mitigation planning group (2014)*

Patrice Carroll (Planning and Community Development): *has worked on the City's Comprehensive Plan and been part of the emergency management recovery framework conversation already*

Julie Matsumoto (Seattle Finance and Administrative Services): *Works on asset management for FAS*

Elenka Jarolimek (Seattle Finance and Administrative Services): *serves as the emergency management coordinator for FAS*

Introductions of Hazard Mitigation Work Group 2020 Members in OEM:

Barb Graff (Director)

Laurel Nelson (Deputy Director)

Erika Lund (Recovery and Mitigation Coordinator)

Ivan Lee (Training and Exercise Coordinator)

Lucia Schmit (Planning Coordinator)

TJ McDonald (Technology Coordinator)

Hazard Mitigation Planning: Purpose, Regulations, and Updates

Erika Lund reviewed what a Hazard Mitigation Plan is and what they are used for, touching on the bullet points listed below:

- Identify the natural hazards for which communities are at risk for
- Assess potential impacts of those hazards
- Develop goals, objectives, and actions to reduce impacts
- Prioritize and implement mitigation actions

She reviewed FEMA planning requirements as dictated by CFR 201.6 Local Mitigation Plans below:

- Documentation of planning process
- Provide stakeholders opportunity to participate
- Conduct and document public involvement
- Incorporate existing plans and reports
- Discuss continued public participation and plan maintenance
- Provide a method for monitoring, evaluating, and updating the plan

She reviewed new items regarding hazard mitigation planning this year and what has changed in context of the last plan touching on:

- Recent changes in FEMA funding and restructuring → Building Resilience in Communities (BRIC)
 - Information is relatively sparse right now but more information can be found here [BRIC Webinar Series](#)
- Review Emergency Management Accreditation Program (EMAP) Accreditation Process: hazard mitigation plan revision will need to be EMAP compliant as OEM is going through the five year re-accreditation process

Roles of MWG Members

Barb Graff: Welcoming message and thank for participation in group. Emphasized the importance of hazard mitigation and the valuable work that will come out of the working group meetings. Highlighted legislation supporting hazard mitigation work.

Erika Lund: Provided baseline expectations OEM staff have of Hazard Mitigation Work Group. Emphasis on the importance of the role and the representative capacity they carry for their respective departments.

- Participate in 3 planning meetings (January, March, and May 2020) & follow up on Action Items
- Serve as Subject Matter Experts (SMEs) on Department mitigation needs and priorities
- Support Public and Stakeholder Outreach
- Provide feedback on
 - The updated risk assessment,
 - City capabilities, and
 - Mitigation strategy
 - Review draft and final plans

Open Discussion 1: Hazard Vulnerabilities

Members were asked around the table to share answers to these questions. Erika emphasized the vulnerability and not the hazard itself. Provided an example: vulnerability of bridges and transportation system from earthquakes.

Discussion Question 1: *What hazard **vulnerabilities** are you aware of regarding your department's assets, operations, and/or plans?*

Seattle Public Utilities

- Water and wastewater system (transmission, treatment, distribution) underground pipelines and facilities affected by seismic
- Also examining wildfire (treatment facilities), intense rain events and rising sea level (storm drains)
 - Focus on the Duwamish area for intense rain and sea level rise
- Large effort on large stormwater projects
- Capital program is in place

Seattle Public Library

- Has 8 Unreinforced Masonry (URM) buildings
 - Levey funding will pay for the three most vulnerable URM
- Terrorism concern for Central Library- glass makes up significant portion of structure
- Air filtration / buildings are designed to have doors and windows open. Filtration is hospital grade but has HVAC issues (gets too hot with filtration going/ library must shut down at 85 degrees)→ wildfire smoke hazard
- Libraries serve as community gathering spaces to receive information → immigrants and refugees may view as a trusted space
- Questions were asked about shelving systems and collection preservation but not known what non-structural protective measures are in place

Seattle City Light

- Systems operations control center construction
- Wildfire impacts
- Transmission lines are highly vulnerable
- South system service center is in liquefaction zone
- Microgrids under discussion, but exploratory only at this point
- Undergrounding of powerlines is only applied in new construction, pros and cons (restoration is easier with above ground)

Seattle Human Services Department

- Focus on agencies that HSD contracts with external agencies, valued at over 100 million dollars
 - Case management

Seattle Housing Authority

- One URM building (owned partially with city)
 - Study underway on seismic retrofit
 - Will be placed into capital program pending study result
- Many concrete buildings with extremely vulnerable populations (around 30 buildings)
 - Older buildings built in the 1950s housing elderly and disabled
 - Concrete spalling is evident
 - Some buildings are historical therefore more difficult/expensive to improve
 - Jefferson Terrace is prioritized next due to concerns
- Many duplexes / single resident homes not checked for retrofit (approx. 2000)
- Focus on high rise buildings → 10+ stories

Department of Neighborhoods (Historic preservation)

- Offered streamlined review process with UW, could be used more broadly
 - Toolkit development on URM buildings

Information Technology Department

- Cybersecurity
 - People are the greatest exploit/vulnerability, e.g. clicking on unidentified links
- Data center physical security for both west and east centers

Planning and Community Development

- now a funding agency
- possible to investigate being more equitable

Financial Administrative Services

- Seismic retrofit work done on first responder facilities, especially Seattle Police Department → West Precinct
- Other facilities that are critical to response (vehicle maintenance shops, etc.)
 - Reliance from SPU and SPD
- Implementing Shake Alert for elevators at Seattle Metro Transit
- Fleets are vulnerable (shops, fuel, garages)

SHIVA 2018 Update

TJ McDonald provided a brief presentation on the Seattle Hazard Identification and Vulnerability Analysis (SHIVA), which drives all of OEM's planning.

General overview of SHIVA

- Risks to communities can be divided into stressors, like homelessness, and shocks, like earthquakes
- A hazard identification and vulnerability analysis is a comprehensive look at the shocks facing a community using the best available science
- Updated every 4 years

- Considers
 - Likelihood hazard will occur
 - Which areas are exposed to the hazard?
 - Potential consequences
 - State of the community, including stressors

Updates and Changes

- Added new chapter on Cyber-attack and Disruption
- Emerging Threats section → Climate Change
- Terrorism and Active Shooter Incidents chapters → Attacks
- Infrastructure Failures → Infrastructure and Structural Failures
- New scenarios for Disease/Pandemic Influenza, Social Unrest, Infrastructure and Structural Failures, Cyber-attack, and Windstorms
- New research from past 4-6 years
- Updated statistics in the Community Profile
- Reassessed hazard ratings and rankings

2015 - 2021 Hazard Mitigation Plan

Erika Lund provided an overview of the current Hazard Mitigation Plan. The heart of the plan is the Mitigation Strategy, which has a prioritized set of City actions aimed at reducing hazard vulnerability. The plan is organized as follows:

- Chapter 1 – Introduction. Identifies the authorities on which the plan is based, describes the plan’s purpose and scope, describes how the plan is organized, and identified changes to the plan since 2009.
- Chapter 2 – Planning Process. Describes the process used to update the plan, including data sources and plan integration activities, outreach and engagement strategies, MWG activities, and plan development milestones.
- Chapter 3 – Community Profile. Provides a summary community profile for the City of Seattle including geographic, demographic, and economic characteristics that make the City unique. A full community profile is provided in the Seattle Hazard Identification and Risk Assessment document in Appendix A.
- Chapter 4 – Hazard Identification and Vulnerability Analysis. Contains a summary of the hazards that could potentially impact the City, including a hazard ranking table. Full hazard profiles and vulnerability assessment information is provided in the Seattle Hazard Identification and Risk Assessment document in Appendix A.
- Chapter 5 – Capability Assessment. Identifies the existing mitigation capabilities of City departments and highlights mitigation accomplishments over the last planning cycle.
- ***Chapter 6 – Mitigation Strategy. Provides updated goals and objectives for the City’s mitigation program and identifies a comprehensive set of prioritized mitigation actions that would contribute to the City’s resiliency.***

- Chapter 7 – Program Implementation. Describes the City’s plan for monitoring, evaluating, and updating the Seattle HMP over the next five-year period.

Open Discussion 2: HM Planning Process

Discussion Question 2: How can we increase participation and visibility of the plan within your organization?

General Points:

- More funding will lead to more visibility across departments and organizations
- Focus on dependencies that enhance resilience, e.g. fleets and fuel→ could create chain reactions of weakness or failures
- Coordinate with the Climate Action Board?
- Coordinate with the Capital cabinet→ determines partner directions

Discussion Question 3: Are there other planning efforts that we should be aware of that connect to mitigation planning?

- | | |
|---|---|
| <ul style="list-style-type: none"> • Comprehensive Plan Update (OPCD) • Maritime and Industrial Strategy (OPCD) • Freight Master Plan (SDOT) • Food Action Plan (OSE) <ul style="list-style-type: none"> ○ Working on 2020 Update • 2018 Seismic Study (SPU) • Integrated System Plan (SPU) • Duwamish Valley Acton Plan (OSE and OPCD) • Light rail Station Area Plans (OPCD) • Mitigation Plan and Dam Action Plan | <ul style="list-style-type: none"> (SCL) • SPR 2020- 12 year finance plan • “Green New Deal” (OSE) • Capital Improvement Plan <ul style="list-style-type: none"> ○ Helps determine mitigation projects • List and Timeline of Levies • Damage Assessment Annex <ul style="list-style-type: none"> ○ Could use meetings with neighborhood liaisons and can ask local mitigation concerns |
|---|---|

Additional plan recommendations provided by HSD following the meeting that may have a connection to mitigation:

- Seattle’s [2018-2022 Consolidated Plan for Housing and Community Development](#)
- [Age Friendly Seattle](#) – Developing an Age-Friendly Seattle Action Plan – 8 domains include outdoor spaces and buildings, housing, etc. (HSD, Aging and Disability Services,
- [Area Plan 2020-2023](#) for Seattle and King County (HSD, Aging and Disability Services
- [Seattle Food Action Plan](#) – in process of being revised first half of 2020 (Office of Sustainability and Environment)

Discussion Question 4: How can we make this process more meaningful? (one group provided these responses with OPCD and FAS representation)

- Make list of mitigation projects (unfunded) more visible. Possibly from the Capital Improvement Program or Comprehensive Plan?
- Make mitigation investment strategy visible in CIP, Comprehensive Plan (List of future projects)

Other discussion items from Seattle Housing Authority and HSD regarding capabilities, response, and other areas

- Actions of putting generators in/near large buildings (SHA)
- Working on making air systems better than they were built as in 1970s
- Funding determines what projects get pursued. Buildings are owned and service is provided by Seattle Housing Authority
- Seattle Housing Authority has food and water rations in large meetings; has building assessors
- Focus on homelessness→ a regional effort do we need to think different about inclusion in city efforts?
- CBDG grant funding looks at hazards
- HSD has less connection with mitigation plan because no facilities focus on services that help on RSS increasing resilience of services

Action Items and Wrap up:

Further instructions and timelines will be forthcoming on the following two Action Items for City departments represented in 2015 Hazard Mitigation Plan:

Provide Status Updates for 2019 and Recommend on Carry Over

- Determine if open projects should: Carry Over to the revised Plan, Be Revised, or Be Removed (and why)

Provide update to Seattle's Mitigation Capacity

- *What authorities, policies, programs, and new resources have you instituted in the past 5 years?*
- *Are there any programs that you have stopped? – If so, why?*

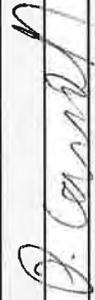
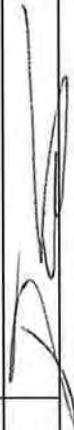
Doodle poll will be forthcoming for second Hazard Mitigation Work Group meeting (to be held in March)

Thank you for your participation!

MITIGATION WORK

GROUP

SIGN-IN

Office of Emergency Management	Mitigation Work Group Kick Off Meeting	27-Jan-20
Name	Department/Agency	Signature
Flossie Pennington	Arts and Culture	
Devore, Jennifer	Budget Office	
Kara Main Hester	Budget Office	
Elliott, Jana	City Light	
Chappell, Micah	Construction & Inspection	
Sodt, Sarah	DON Historic Preservation	
Stickel, Karl	Economic Development	
Graff, Barb	Emergency Management	
Lund, Erika	Emergency Management	
McDonald, TJ	Emergency Management	
Nelson, Laurel	Emergency Management	
Schmit, Lucia	Emergency Management	
Jarolimek, Elenka	FAS	
Matsumoto, Julie	FAS	
Sriver, Cody	Fire	
Foley, Dan	Housing	
Watson, Jill	Human Services Department	
Dennis Reddinger	Libraries	
	OSE	
Will Beatie	Parks & Recreation	
Stevens, Scott	Parks & Recreation	
Carrroll, Patrice	Planning and Community Development	
Davich, Kati	Port of Seattle	
Houston, Addison	Public Health Seattle King County	
Worcester, Ned	Public Utilities	
Michael Godfried	Public Utilities (Resilience)	
Crary, Jill	Seattle Center	
Jared Cummer	Seattle Housing Authority	
Eichhorn, Lawrence	Seattle IT	
Kaku, Clinton	Seattle IT	
TBD	Seattle Police Department - facilities	
Benjamin Coulter	Seattle Public Schools	
Quirk, Patti	Transportation	
<i>Dante Disabatino</i>	<i>OEM</i>	

Office of Emergency Management	Mitigation Work Group Kick Off Meeting	27-Jan-20
Name	Department/Agency	Signature
Ivan Lee	OEM	

Seattle All-Hazards Mitigation Plan 5 Year Update

Mitigation Work Group Meeting
#1: Kick Off Meeting



MITIGATION WORK GROUP - MEETING #1

Agenda

- 1. Opening Remarks and Introductions*
- 2. Local Hazard Mitigation Plan Purpose*
- 3. Mitigation Work Group Participation*
- 4. Discussion: Vulnerabilities*
- 5. SHIVA Highlights*
- 6. Overview of Current Seattle HMP*
- 7. Discussion: Making the Plan and Process Meaningful*
- 8. Action Items and Next Steps*



SEATTLE HAZARD MITIGATION PLAN UPDATE

- What is a Hazard Mitigation Plan and Why do we have one?
- FEMA and EMAP Requirement
- What's new in the planning context?



WHAT IS HAZARD MITIGATION?

Mitigation is the effort to reduce loss of life and property by lessening the impact of disasters. Mitigation is taking action now—before the next disaster—to reduce human and financial consequences later (FEMA).

Mitigation planning allows communities to:

- *Identify the natural hazards for which they are at risk*
- *Assess the potential impacts of those hazards*
- *Develop goals, objectives, and actions to reduce impacts*
- *Prioritize and implement mitigation actions*

WHY IS A MITIGATION PLAN IMPORTANT?

- *Guides mitigation activities in coordinated and economic manner*
- *Integrates mitigation into existing community plans/programs*
- *Considers future growth and development trends*
- *Makes community more disaster resilient*
- *Keeps us eligible for FEMA Hazard Mitigation Funding*



HAZARD MITIGATION PLANNING PROCESS

Pre-Planning	Plan Development	Plan Implementation
<p>#1: Determine the Planning Area and Resources</p> <p>#2: Build the Planning Team</p> <p>#3: Create an Outreach Strategy</p>	<p>#4: Review Community Capabilities</p> <p># 5: Conduct a Risk Assessment</p> <p>#6: Develop a Mitigation Strategy</p>	<p>#7: Keep the Plan Current</p> <p>#8: Review and Adopt the Plan</p> <p>#9: Create a Safe and Resilient Community</p>

Source: FEMA Local Mitigation Planning Handbook, 2013



BECAUSE FEMA SAID SO... PLAN REQUIREMENTS



- *Plan will be developed to meet the requirements outlined in 44 CFR §201.6*
- *Local Mitigation Plan Review*

What's New?

- Changes in FEMA funding: Building Resilience Infrastructure and Communities (BRIC)
- Re-accreditation under the Emergency Management Accreditation Program (EMAP)



Mitigation Work Group Role

- *Participate in 3 planning meetings (January, March, and May 2020) & follow up on Action Items*
- *Serve as Subject Matter Experts (SMEs) on Department mitigation needs and priorities*
- *Support Public and Stakeholder Outreach*
- *Provide feedback on*
 - *The updated risk assessment,*
 - *City capabilities, and*
 - *Mitigation strategy*
- *Review draft and final plans*



Break for Discussion #1

- What hazard **vulnerabilities** are you aware of regarding your department's assets, operations, and/or plans?



2018 Seattle Hazard Identification and Vulnerability Analysis (SHIVA) Revision

1/27/2020

Seattle Office Of Emergency Management



City of Seattle

What is it?

- Risks to communities can be divided into stressors, like homelessness, and shocks, like earthquakes.
- A hazard identification and vulnerability analysis is a comprehensive look at the shocks facing a community using the best available science.
- Updated every 4 years
- Considers
 - Likelihood hazard will occur
 - Which areas are exposed to the hazard
 - Potential consequences
 - State of the community, including stressors
- Find at:
<https://www.seattle.gov/Documents/Departments/Emergency/PlansOEM/SHIVA/SHIVAv7.0.pdf>



Biggest Changes

- Added new chapter on Cyber-attack and Disruption
- Emerging Threats section → Climate Change
- Terrorism and Active Shooter Incidents chapters → Attacks
- Infrastructure Failures → Infrastructure and Structural Failures
- New scenarios for Disease/Pandemic Influenza, Social Unrest, Infrastructure and Structural Failures, Cyber-attack, and Windstorms
- New research from past 4-6 years
- Updated statistics in the Community Profile
- Reassessed hazard ratings and rankings



Hazard Ranking Method

*Scenario Ranking = Average (Base Parameters) * Sum (Multipliers)*

Combined Ranking = (Scenario Ranking: Most Likely) + (Scenario Ranking: Maximum Credible) + Future Emphasis

Hazard Ranking Changes

1. Earthquakes
2. Snow & Ice
3. Infrastructure Failures
4. Windstorms
5. Power Outages
6. Terrorism
7. Disease
8. Flooding
9. Excessive Heat
10. Fires
11. Tsunami & Seiches
12. Landslides
13. Transportation Incidents
14. Water Shortages
15. Social Unrest
16. HazMat Incident
17. Volcano Hazards
18. Active Shooter Incidents

1. Earthquakes
2. Snow & Ice
3. Windstorms
4. Power Outages
5. Cyber-Attack
6. Landslides
7. Disease
8. Flooding
9. Excessive Heat
10. Tsunami & Seiches
11. Infrastructure and Structural Failures
12. Fires
13. Transportation Incidents
14. Water Shortages
15. Social Unrest
16. Attacks
17. HazMat Incidents
18. Volcano Hazards



Questions?

TJ McDonald
tj.mcdonald@seattle.gov



Current 2015 - 2021 All-Hazard Mitigation Plan Overview

- **Chapter 1 – Introduction.** Identifies the authorities on which the plan is based, describes the plan's purpose and scope, describes how the plan is organized, and identified changes to the plan since 2009.
- **Chapter 2 – Planning Process.** Describes the process used to update the plan, including data sources and plan integration activities, outreach and engagement strategies, MWG activities, and plan development milestones.
- **Chapter 3 – Community Profile.** Provides a summary community profile for the City of Seattle including geographic, demographic, and economic characteristics that make the City unique. A full community profile is provided in the Seattle Hazard Identification and Risk Assessment document in Appendix A.
- **Chapter 4 – Hazard Identification and Vulnerability Analysis.** Contains a summary of the hazards that could potentially impact the City, including a hazard ranking table. Full hazard profiles and vulnerability assessment information is provided in the Seattle Hazard Identification and Risk Assessment document in Appendix A.
- **Chapter 5 – Capability Assessment.** Identifies the existing mitigation capabilities of City departments and highlights mitigation accomplishments over the last planning cycle.
- **Chapter 6 – Mitigation Strategy.** Provides updated goals and objectives for the City's mitigation program and identifies a comprehensive set of prioritized mitigation actions that would contribute to the City's resiliency.
- **Chapter 7 – Program Implementation.** Describes the City's plan for monitoring, evaluating, and updating the Seattle HMP over the next five-year period.



Break for Discussion #2

Questions: **Process**

- How can we increase *participation* and *visibility* of the plan within your organization?
- How can this process be more meaningful for you and your departments?
- Are there other planning efforts that we should be aware of that connect to mitigation planning?



Action Item #1: Revisit 2015 - 2021 Projects

- Provide Status Updates for 2019 – Maintenance
- Determine if open projects should:
 - Carry Over to the Updated Plan
 - Be Revised
 - Be Removed (and why)



Action Item #2: Update Capabilities

Provide update to Seattle's Mitigation Capacity

- *What authorities, policies, programs, and new resources have you instituted in the past 5 years?*
- *Are there any programs that you have stopped?*
 - *If so, why?*

Seattle All Hazards Mitigation Plan – 5 Year Revision Process

Hazard Mitigation Work Group (MWG) - Meeting #2

Date/Time: Monday, September 14, 2020 11:00 AM – 12:00 PM

Location: Online Teams Meeting

Introductions 10 min	Erika Lund, Patrice Carroll, New members
Relaunching the Update 15 min	Recap of Meeting 1 Revised Schedule Outreach
Collaborating on Teams 10 minutes	Organization of Teams Site Resources, posting, uploading, editing Discussion Question – Other suggestions how to use Teams for this project?
Outstanding Tasks 20 minutes	Capability Assessment Status of 2015-2021 Actions Discussion Question- “Key Accomplishments” helpful or duplicative?
Wrap Up 5 Minutes	Upcoming Task – Mitigation Actions

All-Hazard Mitigation Plan Update Milestones:

Hazard Mitigation Work Group Meeting 1	January 27, 2020
Planning process paused for Covid-19 response	
Hazard Mitigation Work Group Meeting 2	September 14, 2020 11am-12 noon
Hazard Mitigation Work Group Meeting 3 Capabilities & Status of Current Actions Due	September 28, 2020 11am – 12 noon
Mitigation Actions Due	October 19, 2020
Hazard Mitigation Work Group Meeting 4	November 4, 2020 3:30-4:30 pm
Public Draft for Review and Comment	November 16, 2020
Public Comment Period (3 weeks)	November 16 – December 4, 2020
Hazard Mitigation Workgroup Meeting 5	December 14, 2020 11am-12 noon
Final Draft for Review and Approval	December 31, 2020

Seattle All Hazards Mitigation Plan – 5 Year Revision Process

Begin Approval Process	January 2021
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Hazard Mitigation Work Group 2020 Members:

Name	Department/Agency
Flossie Pennington	Arts and Culture
Jennifer Devore	Budget Office
Kara Main Hester	Budget Office
Jana Elliot	City Light
Micah Chappell	Construction & Inspection
Sarah Sodt	Dept of Neighborhoods, Historic Preservation
Jessica Sidhu	Economic Development
Erika Lund	Emergency Management
TJ McDonald	Emergency Management
Laurel Nelson	Emergency Management
Lucia Schmit	Emergency Management
Elenka Jarolimek	FAS
Julie Matsumoto	FAS
Andy (James) Collins	Fire
Dan Foley	Housing
Jill Watson	Human Services Department
Dennis Reddinger	Libraries
TBD	Office of Sustainability and Environment
Jon Jainga	Parks & Recreation
Scott, Stevens	Parks & Recreation
Cynthia McCoy	Seattle Parks and Recreation/ Seattle Public Utilities
Patrice Carroll	Planning and Community Development/ OEM
David Goldberg	Planning and Community Development
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Michael Godfried	Public Utilities (Resilience)
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Lawrence Eichhorn	Seattle IT
Clinton Kaku	Seattle IT
Benjamin Coulter	<i>Seattle Public Schools</i>
Patti Quirk	Transportation

Seattle All Hazards Mitigation Plan – 5 Year Revision Process

Hazard Mitigation Work Group (MWG) Meeting #2 – Meeting Notes

Hosted by: The Seattle Office of Emergency Management (OEM)

Date/Time: Monday, September 14, 2020 11:00AM-12:00 PM

Location: Online

AGENDA:

Meeting Item	Duration	Presenter/Facilitator
Introductions	10 minutes	Erika Lund, OEM
Relaunching the Update	15 minutes	Patrice Carroll, OEM/OPCD
Collaborating on Teams	10 minutes	Patrice Carroll, OEM/OPCD
Outstanding Tasks	20 minutes	Patrice Carroll, OEM/OPCD
Action items and Wrap Up	5 minutes	Patrice Carroll, OEM/OPCD

ATTACHMENTS:

- Attendance Sheet
- Agenda and Presentation available on Teams site, MWG Meetings channel

MEETING SUMMARY

Introductions

Erika Lund welcomed back the Mitigation Work Group (MWG) and explained that update for the All-Hazard Mitigation Plan (HMP) was paused due to more urgent work associated with the Covid-19 pandemic. She asked if anyone had any objections to recording the meeting and heard no objections.

Erika Lund introduced Patrice Carroll who is on loan to OEM from the Office of Planning and Community Development (OPCD) to help finish the HMP update. Patrice will be the primary contact for the project and MWG members. New MWG members introduced themselves: Jessica Sidhu, OED; Any Collins, SFD; Jon Jainga, SPR; Cynthia McCoy, SPR/SPU; David Goldberg, OPCD.

Relaunch

Patrice Carroll reviewed topics that were covered in Meeting #1 (Jan 2020) and encouraged members to review the presentation and notes from this meeting (available on Teams, MWG Meetings channel).

Topics in Meeting #1 included:

- Hazard Mitigation Plan Overview
- FEMA and EMAP Requirements
- Role of Mitigation Work Group
- Seattle Hazard Identification and Vulnerability Analysis (SHIVA)
- Discussion: Making the Plan More Useful
- Tasks: Capability Assessment, Status of Actions 2015-2021

Patrice Carroll reviewed the updated, compressed process for completing the HMP. MWG’s work will focus on updating the information in Chapters 5 and 6. A Draft Plan for public review will be published in

mid-November and a Final Plan will be completed by end of December 2020 ready to begin the adoption and approval process in 2021.

Outreach and engagement will be very focused and streamlined. Outreach Strategies identified by OEM staff include:

- Posting Information and resources about the project on OEM Website including a downloadable one-page project summary and a video of a narrated online presentation.
- Raising awareness of the update through the OEM Newsletter (monthly).
- Creating a focused polling question for the public to be shared on social media (see below).

Discussion: What ways could other departments support outreach and engagement?

- Parks are getting so much use this year, could we put posters, ambassadors have been placing signs in parks during the pandemic. Could this be a way to share information about the HMP more broadly?
- It's possible a poster could go next to existing signs in parks.
- Consider pitching to PIOs an interview with Bill Radke on KUOW's The Record. Opportunity to raise awareness on what is Hazard Mitigation/risk reduction, but also an opportunity to poll the audience for ideas.
- Would any of the PHSKC Health Boards be interested in providing input to the Mitigation Plan?

Discussion: What types of non-city projects or entities could we list in our polling question?

For the last plan, outreach helped to raise awareness about hazard mitigation generally, but did not directly influence the HMP content. One area where public input could influence the mitigation program to prioritize potential City/community partnerships for future mitigation projects. In the past the HMP has focused on City-owned assets, but recently the City partnered with an affordable housing non-profit to retrofit an affordable housing building. Suggestions for the list of potential priorities:

- Non-profit housing in City's portfolio
- Make sure people know what you are referring
- Public gathering spots that need retrofitting
- Mixed use buildings that have community uses- e.g. Cooper Square
- Look at data related to King County heat island and where greenways, trees might be needed on public access private property.
- Improvements on SCL vacant lands to address heat islands or discourage negative uses. Lands that could be used for community patches or other community uses.
- Suggest looking at reading level for polling question and keep the question direct and simple.
- City has long-term investments in many affordable projects SHA and others. These include covenants/dead restriction and therefore "City infrastructure"
- Heat islands - especially at the intersection of industrial and residential areas - is something to consider
- Raise awareness on the Tool Library with the goal to increase numbers of seismic retrofit of residential homes.

Collaborating on Teams

Patrice Carroll oriented the group to the organization of the Teams site, channels and tabs.

- Advantages of collaborating on editing documents: people can work simultaneously, and always have the latest version.
- Many ways to access a shared document for editing- desktop, browser, Sharepoint
- Most important – do not to create a new, unshared version (e.g. download, edit and email a document).
- Set your preference for group email in Outlook (OEM_MitigationWork Group). Group email can be delivered to “Inbox” and “OEM folder” OR just the “OEM folder.”
- Use Posts instead of email.

Discussion: Are there other ways to organize or use Teams that would be helpful for collaboration?

MWG members can make suggestions to Patrice Carroll anytime.

Outstanding Tasks

Asking that MWG members complete the following two task by Sept 28. A shared file will be posted on Teams for each task.

- Capability Assessment. All City departments should submit Capabilities. Please review even if you submitted an update earlier to ensure it was captured. Deadline for completing this task is September 28.
- Status of 2015-2021 Actions. Only departments that have actions in the last HMP need to report on the status.
- Desire to make descriptions more succinct.

Discussion: Is the information included in “Key Accomplishments” helpful?

- Key accomplishments may be helpful in writing for federal grant application, or efforts to address these issues internally. Unclear if it is actually used for federal grants.
- Might be helpful for the public or city staff that do not do 'deep dives' into the material and give them an overview or high level view that helps them understand what the plan is for or doing....BCal grant application packages.
- Not sure if the key accomplishments help with grants. Can take another look. Not as important as the strategies and the actions.
- Maybe combine description and key accomplishments. Maybe could use this to capture measurable information. Most current information isn't measurable.
- Can capture metrics in the Status Update about “benefits.” This is an EMAP requirement.

Wrap Up

- Next meeting Sept. 28, 2020
- Finish outstanding tasks before next meeting
- Start thinking about who else from your department will help identify Mitigation Actions. Consider scheduling some time with them in early Oct. (mitigation actions will be due Oct. 19).
- For those who want to get started, we hope to post a revised Mitigation Action Worksheet soon.

Thank you for participating!

Seattle All Hazards Mitigation Plan – 5 Year Revision

Name	Department/Agency	9/14/20 Mtg
Flossie Pennington	Arts and Culture	
Jennifer Devore	Budget Office	
Kara Main Hester	Budget Office	
Jana Elliot	City Light	X
Micah Chappell	Construction & Inspection	X
Sarah Sodt	Dept of Neighborhoods, Historic Preservation	X
Jessica Sidhu	Economic Development	X
Erika Lund	Emergency Management	X
TJ McDonald	Emergency Management	X
Laurel Nelson	Emergency Management	
Lucia Schmit	Emergency Management	X
Elenka Jarolimek	FAS	X
Julie Matsumoto	FAS	X
Andy (James) Collins	Fire	X
Dan Foley	Housing	X
Jill Watson	Human Services Department	X
Dennis Reddinger	Libraries	X
TBD	Office of Sustainability and Environment	
Jon Jainga	Parks & Recreation	X
Scott, Stevens	Parks & Recreation	X
Cynthia McCoy	Seattle Parks and Recreation/ Seattle Public Utilities	X
Patrice Carroll	Planning and Community Development/ OEM	X
David Goldberg	Planning and Community Development	X
Kati Davich	<i>Port of Seattle</i>	
Addison Houston	Public Health Seattle King County	
Ned Worcester	Public Utilities	
Michael Godfried	Public Utilities (Resilience)	
Jae Lee	Seattle Center	X
Jared Cummer	<i>Seattle Housing Authority</i>	
Lawrence Eichhorn	Seattle IT	X
Clinton Kaku	Seattle IT	
Benjamin Coulter	<i>Seattle Public Schools</i>	X
Patti Quirk	Transportation	



Seattle All-Hazards Mitigation Plan 5 Year Update

Mitigation Work Group Meeting #2: Relaunch

9/14/2020 Seattle Office Of Emergency Management

Seattle All Hazards Mitigation Plan – 5 Year Revision Process

Hazard Mitigation Work Group (MWG) - Meeting #3

Date/Time: Monday, September 28, 2020 11:00 AM – 12:00 PM

Location: Online Teams Meeting

Introductions 5 min	Erika Lund, Patrice Carroll, New members
Check In - Tasks & Teams 15 min	Recap of Meeting 2 Troubles with Teams Capability Assessment Status of Actions
Mitigation Goals and Objectives 10 minutes	Discussion: Confirming relevancy
Mitigation Actions 30 minutes	Different Types of Actions Integrating of HMP with Other Plans NEW – Aspirational Actions Discussion: Capability vs. Action vs. Plan
Integrating RSJI 10 minutes	Ideas for this update or future HMP
Next Steps 5 Minutes	Department Mtgs Next MWG Mtg

All-Hazard Mitigation Plan Update Milestones:

Hazard Mitigation Work Group Meeting 1	January 27, 2020
Planning process paused for Covid-19 response	
Hazard Mitigation Work Group Meeting 2	September 14, 2020 11am-12 noon
Hazard Mitigation Work Group Meeting 3 Capabilities & Status of Current Actions Due	September 28, 2020 11am – 12 noon
Mitigation Actions Due	October 19, 2020
Hazard Mitigation Work Group Meeting 4	November 4, 2020 3:30-4:30 pm
Public Draft for Review and Comment	November 16, 2020
Public Comment Period (3 weeks)	November 16 – December 4, 2020
Hazard Mitigation Workgroup Meeting 5	December 14, 2020 11am-12 noon
Final Draft for Review and Approval	December 31, 2020
Begin Approval Process	January 2021

Seattle All Hazards Mitigation Plan – 5 Year Revision Process

Hazard Mitigation Work Group 2020 Members:

Name	Department/Agency
Flossie Pennington	Arts and Culture
Jennifer Devore	Budget Office
Kara Main Hester	Budget Office
Jana Elliot	City Light
Micah Chappell	Construction & Inspection
Sarah Sodt	Dept of Neighborhoods, Historic Preservation
Jessica Sidhu	Economic Development
Erika Lund	Emergency Management
TJ McDonald	Emergency Management
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Hazard Mitigation Work Group (MWG) Meeting #3 – Meeting Notes

Hosted by: The Seattle Office of Emergency Management (OEM)

Date/Time: Monday, Sept. 28, 2020 11:00AM-12:00 PM

Location: Online

AGENDA:

Meeting Item	Duration	Presenter/Facilitator
Introductions	5 minutes	Patrice Carroll, OEM/OPCD
Recap of Meeting 2	5 minutes	Patrice Carroll, OEM/OPCD
HMP Framework/ Goals	10 minutes	Patrice Carroll, OEM/OPCD
HMP Actions/ Worksheet	30 minutes	Patrice Carroll, OEM/OPCD
Integrating Equity	5 minutes	Patrice Carroll, OEM/OPCD
Wrap Up	5 minutes	Patrice Carroll, OEM/OPCD

ATTACHMENTS:

- Attendance Sheet
- Agenda, Presentation and Meeting Video available on Teams- MWG Meetings channel

MEETING SUMMARY

Introductions

Michael Godfried from SPU was unable to attend the MWG Meeting #2, so introduced himself to the group.

Recap of Meeting #2

Patrice Carroll gave a quick recap of what happened at Meeting #2 on Sept. 14th

- Revised Schedule – Will complete the update by end of 2020.
- Collaborating on Teams – Using Teams Platform to share information and collaborate on documents. Patrice encouraged people not yet comfortable on Teams to reach out to her for assistance finding information or accessing shared documents.
- Updating the Capability Assessment – All departments should update or draft capabilities. Some are still working on this Word table.
- Updating Status – Depts who had actions in the previous plan should provide status information on those actions. Information is entered in an excel sheet in “colorful” columns at the right side of the sheet.
- Question re: period for status update- through 2019 or 2020.- have a lot of Covid-related actions in 2020. We wanted to capture status as of year-end 2019 for monitoring. Given planning delays, we welcome additional status information in 2020 where it makes sense.
- Re: Covid actions, we need to look more closely internally to see how public health mitigation actions might fit in.
- Patrice encouraged members to complete these tasks ASAP, so they can move on to the next task, generating mitigation actions.

Mitigation Strategy Framework

Patrice Carroll presented the framework used for the current plan. It demonstrates the breadth and depth of the plan.

- Goals (6 goals) Long-term outcome achieved through mitigation planning and implementation
- Objectives (18 objectives) Help to define, group, organize actions. Objectives are broader than specific actions and connect goals with actual mitigation actions.
- Actions (54 actions) Specific action taken to reduce risks from hazards and their impacts.

Patrice noted that the average number of actions per department was 4 to 5 actions/ project. The number per department ranged from 1 action to 12 actions. Erika emphasized that the number of actions could change as we're aiming for actions or projects to be more strategic. It's also possible that some departments may not have any actions.

Goals

Patrice presented the 6 goals included in the current plan and noted that two new goals were added in the last update.

1. Protect life and safety and promote community resiliency.
2. Safeguard critical infrastructure and ensure continuity of service.
3. Protect public and private property.
4. Protect the natural environment and cultural and historic resources. NEW IN 2015
5. Ensure a resilient economy.
6. Promote a collaborative and integrated mitigation program. NEW IN 2015

Discussion: Are these goals still relevant? How do these relate to City's vision for recovery?

- Reconsider using the word "ensure" in goal 5 as mitigation actions have less impact than other actions.
- Add an overall goal to bring in equity to reflect how some communities are less resilient on an ongoing basis. This would be a good place to align with our equity goals. For example, a goal could be "Recognize and address existing stresses experienced by BIPOC communities that may place them at heightened risk or require focused attention." -- open to edits....

Types of Actions

Patrice Carroll presented the list of "type" of actions used in the last plan to generate ideas. We're considering eliminating "Preparedness and Response" from the list as these caused some confusion and generated some "emergency response" actions.

- Agree with removing. The Mitigation Plan is going for longer term, more strategic actions. It's about risk reduction.
- Consider adding a type that helps build capacity for the community to be more resilient.

Mitigation Worksheet- Description

The Mitigation Worksheet is the primary tool used to collect information about potential mitigation actions/projects. Page 1 is descriptive information. Page 2 is prioritization criteria. Suggestions for changes included:

- The list of hazards addressed needs updating.
- Highlight how the project advances equity. Are racial equity outcomes advanced?
- Consider collecting information about the age of infrastructure (e.g. 50 years or older) or note if structure is culturally or historic. Required for BRIC
- Projects carried over from last plan need a new worksheet with any updated cost, timeline, etc.

Mitigation Worksheet – Prioritization Criteria

Erika Lund explained the rationale for using the STAPLEE criteria for the last HMP. Criteria, created by FEMA, are known and widely accepted, and aligns well with criteria for grants. However, we are not required to use these criteria, or we can add other criteria. The group also reviewed the criteria used for the 2020 Building Resilient Infrastructure and Communities which emphasizes vulnerable populations, community lifelines, critical infrastructure, multiple benefits, collaboration and innovative solutions. Comments included:

- Liked criteria about multiple benefits beyond hazard mitigation.
- Not sure about criteria related to community lifelines would fit at the city scale. May not be useful to apply to mitigation. The City already does systemwide/citywide assessments of infrastructure - transportation, utilities, etc. Might be interesting lens to apply for specific lifelines where we are vulnerable. May be an additional complexity that we don't address this year. Might consider criteria about the "network" (communication, electrical grid, transportation, supply chain, etc.)
- Might make sense for a more wholistic criteria related to the health system, but perhaps not an addition this year.
- San Francisco has done some nice work on lifelines and interdependencies. Their reports are readily available online.
- The risk of losing historic and cultural is something we need to look at because of the expense to preserve those.
- More opportunities for collaboration around seismic action. City could definitely step up collaboration earthquake is an area we need more collaboration. will grow
- Emphasis on collaboration before a crisis is important because difficult to do that in the moment.
- BRIC looks more whole community and future focused

Integrating Equity

The group reviewed some ideas generated by OEM staff for integrating equity into the HMP: add a new objective, create a 2nd prioritization screen for equity, highlight which mitigation actions have equity outcomes, gather information should we capture in worksheet for reporting or monitoring. Comments included:

- HSD's work, and many other departments, already include an equity lens, so equity would be considered in identifying mitigation actions would already be considered at dept level.
- ARTS is updating Grant applications so demographic data is prioritized and received at the beginning of the process. We know how many BIPOC/QTPOC groups we give Grants to and where they are located in the City.
- Do we want to capture ongoing programs that address equity?
- Align HMP goals with City values, goals and priorities, e.g. recovery goals
- Prioritize actions that both minimize risk and promote climate justice, RSJI goals.

Seattle All Hazards Mitigation Plan – 5 Year Revision

- Use similar language, mapping and indicators as being used across departments.
- Identifying disparities in how communities might experience hazards. OPCD could help identify and map geographic or socio-economic, race proximity. Maps could identify overall issues such as digital access, "essential worker" that could be addressed. OEM also has some maps that could be pulled in. E.g. By layering seismic vulnerability, or facility location in liquefaction zone, mitigation action could include how compounding factors would be addressed.

Community partnerships are expanding. OEM is proposing to poll community about the services that might be more important for partnership projects. Who are the partners to bring into the mitigation fold?

- Add area concerned with children
- Do we need to add or adapt a goal to encompass these service areas.
- HSD has experience with organizations delivering multiple programs. How might mitigation be integrated into those conversations? We could take closer look at work being done, e.g. CDBG, planning for senior services.
- Might be hard to weave mitigation into all our plans, but there is a carrot- more likely to get our projects funded.

Wrap Up

As you begin to generate mitigation actions/ projects, emphasize those that “move the needle” within five years, not necessary to complete, but can show progress. Also keep a list of more aspirational projects that OEM could “hold” for other, new, longer term grant opportunities.

- Next meeting Nov. 4, 2020
- Finish outstanding tasks (Capability, Status) ASAP
- Plan to submit DRAFT Mitigation Actions by Oct. 28.
- Convene dept colleagues in October to discuss, generate and prioritize DRAFT Mitigation Actions.
- For those who want to get started, we hope to post a revised Mitigation Action Worksheet soon.

Thank you for participating!

Seattle All Hazards Mitigation Plan – 5 Year Revision

Name	Department/Agency	9/28/20 Mtg
Flossie Pennington	Arts and Culture	
Jennifer Devore	Budget Office	
Kara Main Hester	Budget Office	
Jana Elliot	City Light	X
Micah Chappell	Construction & Inspection	
Sarah Sodt	Dept of Neighborhoods, Historic Preservation	
Jessica Sidhu	Economic Development	
Erika Lund	Emergency Management	X
TJ McDonald	Emergency Management	X
Laurel Nelson	Emergency Management	
Lucia Schmit	Emergency Management	X
Elenka Jarolimek	FAS	X
Julie Matsumoto	FAS	
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Patrice Carroll	Planning and Community Development/ OEM	X
David Goldberg	Planning and Community Development	X
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Jared Cummer	<i>Seattle Housing Authority</i>	
Lawrence Eichhorn	Seattle IT	X
Clinton Kaku	Seattle IT	
Benjamin Coulter	<i>Seattle Public Schools</i>	
Patti Quirk	Transportation	

Seattle All-Hazards Mitigation Plan 5 Year Update

Mitigation Work Group

Meeting #3: Goals & Actions



Agenda Meeting #3

- 1. Welcome & Introductions*
- 2. Recap Meeting 2*
- 3. HMP Framework*
- 4. HMP Actions/ Mitigation Worksheet*
- 5. Integrating Equity*



Current 2015 - 2021 All-Hazard Mitigation Plan Overview

- **Chapter 1 – Introduction.** Identifies the authorities on which the plan is based, describes the plan's purpose and scope, describes how the plan is organized, and identified changes to the plan since 2009.
- **Chapter 2 – Planning Process.** Describes the process used to update the plan, including data sources and plan integration activities, outreach and engagement strategies, MWG activities, and plan development milestones.
- **Chapter 3 – Community Profile.** Provides a summary community profile for the City of Seattle including geographic, demographic, and economic characteristics that make the City unique. A full community profile is provided in the Seattle Hazard Identification and Risk Assessment document in Appendix A.
- **Chapter 4 – Hazard Identification and Vulnerability Analysis.** Contains a summary of the hazards that could potentially impact the City, including a hazard ranking table. Full hazard profiles and vulnerability assessment information is provided in the Seattle Hazard Identification and Risk Assessment document in Appendix A.
- **Chapter 5 – Capability Assessment.** Identifies the existing mitigation capabilities of City departments and highlights mitigation accomplishments over the last planning cycle.
- **Chapter 6 – Mitigation Strategy.** Provides updated goals and objectives for the City's mitigation program and identifies a comprehensive set of prioritized mitigation actions that would contribute to the City's resiliency.
- **Chapter 7 – Program Implementation.** Describes the City's plan for monitoring, evaluating, and updating the Seattle HMP over the next five-year period.



RECAP OF MEETING 2

- Revised Schedule
- Collaborating on Teams
- Updating Capability Assessment
- Updating Status of 2015-2021 Actions

Meeting agenda, video, presentation and notes available on “MWG Mtg” Channel

Capabilities

Word Document

Existing Mitigation Capabilities - Office of Emergency Management

Capability	Capability Type	Description	Key Accomplishments (2009-2015)	Hazard Mitigated
Neighborhood and Individual Preparedness Programs	Education, and Outreach	These programs provide all-hazard preparedness information and training to Seattle's diverse communities, individuals, families, neighborhoods, businesses, schools, and community-based organizations. Programs include Seattle Neighborhoods Actively Prepare (SNAP), the OEM website, Community Emergency Hubs, and Education Campaigns.	<ul style="list-style-type: none"> Ongoing programs. 	All Hazards
Home Seismic Retrofit Program	Education and Outreach	This free training program promotes home seismic retrofit within Seattle and the region. Introductory class covers how individuals can perform the retrofit themselves, as well as consumer education on working with trained contractors. A course is offered in coordination with Seattle's Department of Planning and Development (DPD), which developed a set of standardized plan sets, issues permits, and performs inspections.	<ul style="list-style-type: none"> Over the past five years, home seismic retrofit classes have been consistently well-attended, averaging 25 to 40 attendees per class. Classes are offered six to 10 times a year in libraries throughout Seattle. Seattle DPD issues an estimated 100 seismic retrofit permits a year. 	Earthquakes



Status

Excel Spreadsheet

Q	R	S	T	U	V
		For Completed Actions		For Uncompleted Actions & 2021 Revision	
Status (e.g. on-going, completed, dropped w/ justification) and activity to date	Date and Source of status information	Mitigation Benefit: Description of how hazard impact has been reduced and/or losses avoided (Refer to outcome studies/reports as appropriate)	Year Completed	Action should be: 1) Carried over as is, 2) Revised, 3) Removed, or 4) Moved to Capability section	Notes, Rationale & Source of Information
Year end: 2019					
Completed. Stood up new data centers, West and East.	Lawrence Eichhorn, May 2018		2018?		



MITIGATION STRATEGY FRAMEWORK

Goals (6 goals)

Long-term outcome achieved through mitigation planning and implementation

Objectives (18 objectives)

Help to define, group, organize actions. Objectives are broader than specific actions and connect goals with actual mitigation actions.

Actions (54 actions)

Specific action taken to reduce risks from hazards and their impacts.

4.5 Average Actions/Dept (range 1 to 12 actions)

GOALS

1. Protect life and safety and promote community resiliency.
2. Safeguard critical infrastructure and ensure continuity of service.
3. Protect public and private property.
4. Protect the natural environment and cultural and historic resources. **NEW IN 2015**
5. Ensure a resilient economy.
6. Promote a collaborative and integrated mitigation program. **NEW IN 2015**

Discussion: Are these goals still relevant? How do these relate to City's vision for recovery?



TYPES OF ACTIONS

- **Plans and Regulations.** Regulatory actions or planning processes that result in reducing vulnerability to hazards.
- **Assessments and Studies.** Actions taken to better understand the potential impacts of identified hazards. An example would be seismic studies of City facilities.
- **Infrastructure/Capital Projects.** Actions taken to modify existing buildings or structures to protect them from a hazard.
- **Non-Structural Mitigation Measures.** Physical actions taken that don't include structural modifications. An example would be efforts to secure furniture or installation of backup generators.
- **Natural Systems Protection.** Actions that, in addition to minimizing hazard losses, preserve or restore the functions of natural systems.
- **Education and Awareness.** Actions taken to inform and educate residents, elected officials, and property owners about hazards and potential ways to mitigate them.
- ~~**Preparedness and Response.** Actions that protect people and property during and immediately after a disaster or hazard event.~~



MITIGATION ACTION WORKSHEET

Description

- Action Status
- Type of Action
- Goals Supported
- Lead or Supporting; Department/Organization
- Timeline
- Life of Action
- Hazards Addressed
- Anticipated Cost
- Funding Available/ Funding Source

Link to 2104 worksheet in Chat



MITIGATION ACTION WORKSHEET

Prioritization Criteria

STAPLEE

Is it **Socially** acceptable?

Is it **Technically** feasible and potentially successful?

Does responsible agency/department have the **Administrative** capacity to execute this action?

Is it **Politically** acceptable?

Is there **Legal** authority?

Is it **Economically** beneficial?

Will the project have a neutral or positive impact on the natural **Environment**

Will historic structures or key cultural resources be saved or protected?

Could it be implemented quickly?

Mitigation Effectiveness

Will the implemented action result in lives saved?

Will the implemented action result in a reduction of disaster damage?

MITIGATION ACTION

NEW Prioritization Criteria

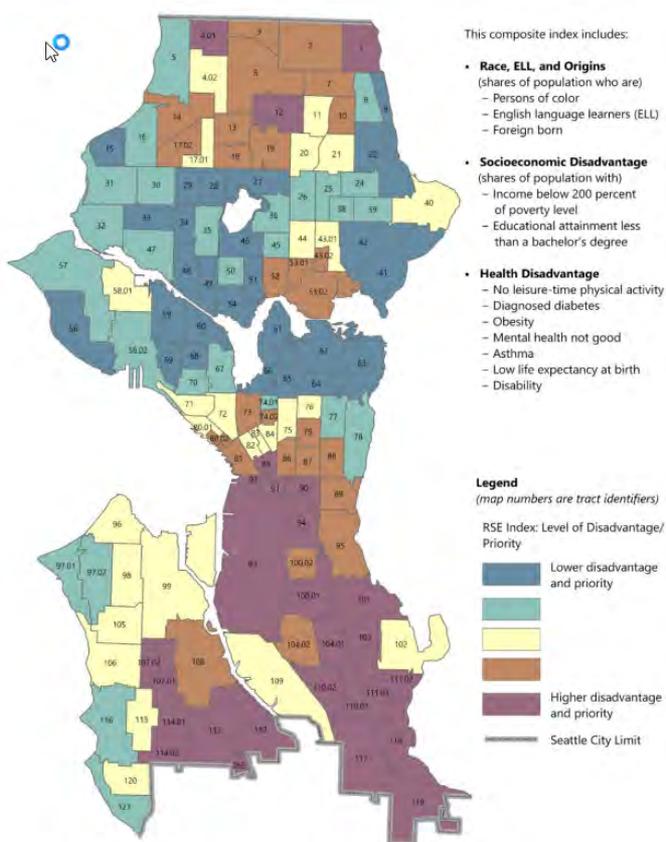
FEMA Building Resilient Infrastructure and Communities (BRIC)

- The proposed project anticipates **impacts on vulnerable populations**, especially regarding equitable risk-reduction outcomes and whole-community approaches to disaster resilience.
- The proposed project addresses **community lifelines and critical infrastructure** vulnerability.
- The proposed project has **multiple benefits** beyond hazard risk reduction, including climate change, regional growth and development, and social vulnerabilities.
- The proposed project is **collaborative** and promotes shared responsibility, partnerships, and is supported by multiple jurisdictions or agencies.
- The proposed project includes **innovative solutions** to mitigate natural hazards, including naturebased solutions when feasible.

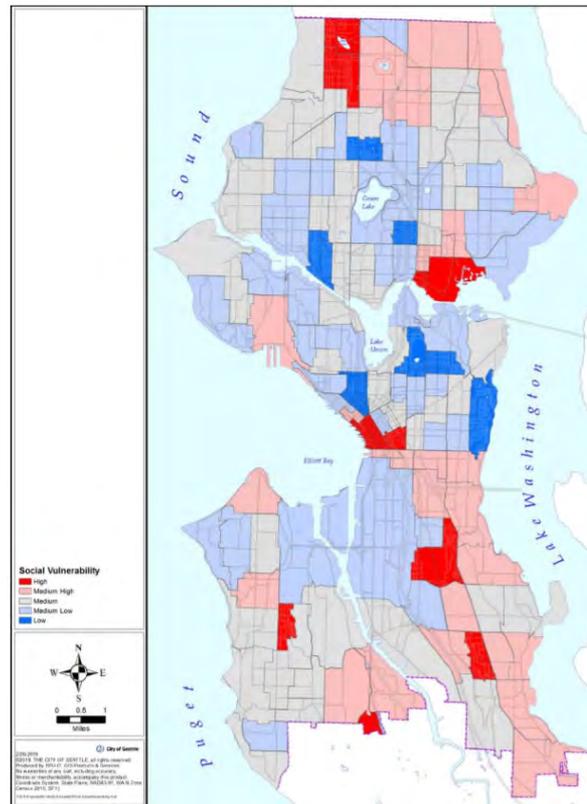


Integrating Equity

What areas or people are a priority?



Race and Social Equity Index



Social Vulnerability Index

Who
BIPOC
Underserved
Vulnerable
Marginalized
Underrepresented
Low income

Neighborhoods
South Park
Georgetown
Chinatown ID
Rainier Valley
Central Area
Bitter Lake
Highland Park

Integrating Equity in this Update

- Amplify “equity” in goals or objectives where appropriate or add new objective.
- Add a 2nd screen to prioritize/score actions
- Graphically highlight actions located in priority areas.
- Capture additional information on the mitigation action worksheet for reporting and monitoring

Discussion: what information might we include on the worksheet?

DEEPER ENGAGEMENT WITH COMMUNITY

Community-based organizations provide critical services to city residents and could benefit from hazard mitigation projects. Which types of services do you think are most critical to protect through mitigation efforts?

Affordable housing/housing assistance

Food assistance

Health and Mental health

Utility assistance

Public safety

Education

Sports and recreation

Art and culture

Aging and disability services

Economic development

Sheltering

Food Banks/food assistance



WRAP UP

ASAP	Complete Capability Assessment & Status
October	Convene colleagues to help identify and prioritize Mitigation Actions
October 26 th	Complete Mitigation Action Worksheets
November 4 th	Next MWG meeting



Seattle All Hazards Mitigation Plan – 5 Year Revision Process

Hazard Mitigation Work Group (MWG) - Meeting #4

Date/Time: Wednesday, November 4, 2020 3:30 PM – 4:30 PM*

Location: Online Teams Meeting

* If you need to join OEM daily call at 4-5 pm, please try to join this meeting from 3:30-4pm.

Introductions 5 min	Erika Lund, Patrice Carroll
Recap 5 minutes	Meeting #3 Capability Assessment Status of Actions Mitigation Actions
Department Round Robin 40 minutes	Sharing your experience, progress, ideas and questions with MWG members
Schedule for Completion 5 minutes	Discussion: What schedule can we commit to?
Next Steps 5 Minutes	Department Mtgs Next MWG Mtg – Dec or sooner?

All-Hazard Mitigation Plan Update Milestones:

Hazard Mitigation Work Group Meeting 1	January 27, 2020
Planning process paused for Covid-19 response	
Hazard Mitigation Work Group Meeting 2	September 14, 2020 11am-12 noon
Hazard Mitigation Work Group Meeting 3 Capabilities & Status of Current Actions Due	September 28, 2020 11am – 12 noon
Mitigation Actions Due	October 28, 2020
Hazard Mitigation Work Group Meeting 4	November 4, 2020 3:30-4:30 pm
Public Draft for Review and Comment	November 16, 2020
Public Comment Period (3 weeks)	November 16 – December 4, 2020
Hazard Mitigation Workgroup Meeting 5	December 14, 2020 11am-12 noon
Final Draft for Review and Approval	December 31, 2020
Begin Approval Process	January 2021

Seattle All Hazards Mitigation Plan – 5 Year Revision Process

Hazard Mitigation Work Group 2020 Members:

Name	Department/Agency
Flossie Pennington	Arts and Culture
Jennifer Devore	City Budget Office
Kara Main Hester	City Budget Office
Jana Elliot	City Light
Micah Chappell	Construction & Inspection
Sarah Sodt	Dept of Neighborhoods, Historic Preservation
Jessica Sidhu	Economic Development
Erika Lund	Emergency Management
TJ McDonald	Emergency Management
Laurel Nelson	Emergency Management
Lucia Schmit	Emergency Management
Elenka Jarolimek	FAS
Julie Matsumoto	FAS
Andy (James) Collins	Fire
Dan Foley	Housing
Jill Watson	Human Services Department
Dennis Reddinger	Libraries
TBD	Office of Sustainability and Environment
Jon Jainga	Parks & Recreation
Scott, Stevens	Parks & Recreation
Cynthia McCoy	Seattle Parks and Recreation/ Seattle Public Utilities
Patrice Carroll	Planning and Community Development/ OEM
David Goldberg	Planning and Community Development
Kati Davich	<i>Port of Seattle</i>
Addison Houston	Public Health Seattle King County
Ned Worcester	Public Utilities
Michael Godfried	Public Utilities (Resilience)
Jae Lee	Seattle Center
Jared Cummer	<i>Seattle Housing Authority</i>
Lawrence Eichhorn	Seattle IT
Clinton Kaku	Seattle IT
Benjamin Coulter	<i>Seattle Public Schools</i>
Patti Quirk	Transportation

Hazard Mitigation Work Group (MWG) Meeting #4 – Meeting Notes

Hosted by: The Seattle Office of Emergency Management (OEM)

Date/Time: Monday, November, 2020 11:00AM-12:00 PM

Location: Online

AGENDA:

Meeting Item	Duration	Presenter/Facilitator
IWelcome	5 minutes	Patrice Carroll, OEM/OPCD
Recap of Meeting 3	5 minutes	Patrice Carroll, OEM/OPCD
Dept Round Robin	40 minutes	Everyone
Schedule for Completion	5 minutes	Patrice Carroll, OEM/OPCD
Next Steps	5 minutes	Patrice Carroll, OEM/OPCD

ATTACHMENTS:

- Agenda

MEETING SUMMARY

Introductions

Erika Lund and Patrice Carroll welcomed group and acknowledged that some may need to jump off for an election day preparedness call.

Recap of Meeting #3

Reviewed framework, goals, worksheets and project prioritization criteria, integrating equity, and reviewed the status of projects that were.

Reviewed Capabilities table and the Status Table for 2015 projects

Framework included goals and objectives. Most of the mitigation actions in last plan addressed Goal #2 (safeguarding critical infrastructure) and #3 (protecting property). We talked about adding an equity goal, but choose not to but will collect additional information and criteria about equity aspects of

Most of the type of actions infrastructure and capital projects, assessments and studies account for ¾ of all actions.

Worksheets information for new actions or actions from the last plan that is being carried forward. Note the criteria that we will be using this year, but asking to rate as high, medium and low. Still using STAPLEE criteria.

Dept. Round Robin

Departments were asked to share stories of their progress- questions and barriers, how they overcame, what help they need from OEM.

SPR/SPU – Kicking off by contacting primarily the planning staff. Will be meeting next week. Shared the SHIVA, worksheets, FEMA workbook section 6 about mitigation strategies. Shared actions from the last plan. Looking at other cities (Portland) to see what mitigation projects from those depts.

Patrice – there are some plans from other cities in the Teams site in “Background.” Feel free to add other plans that would be useful.

FAS – Looking at prioritizing projects that have a more general goal but have no specific funding. Working primarily with asset managers and capital development group. Number of actions have been completed through grant funding. Have an overarching strategy for seismic rather than specific buildings. Suggest reviewing the Capital Improvement Program for projects that fit categories for mitigation.

SDCI – Code adoption and regulation is ongoing. As we go through it automatically updates some hazards. The URM work has been placed on hold due to the pandemic. Working on 2021 Seattle and State code amendments and 2024 International Code updates. Land use staff will be providing updates on waterfront regs. In new codes 20% increase in seismic, will go into effect in Feb 2020.

Erika - What about ECA’s how often is that updated? What about the tall wooden buildings (cross laminated timber (CLT)- can be up to 18 stories in height)?

Micah – Think ECAs are updated on an as needed basis. CLT buildings are allowed in Seattle as part of the 2018 code update. The national code will include CLT in 2021. CLT is considered a carbon sink so mitigates climate issues. Will save \$ in labor In Vancouver a crew of 10 was able to complete 18 story building in 6 months. Some shorter buildings are under construction in Seattle, but no tall buildings yet.

OAC – Been hard to get people to respond. Answered your questions re: capabilities. The public art and spaces that partners with. Have an emergency plan for King St Station, but not Langston Hughes (owned by SPR). All public art if subject to city regulations so it built to be earthquake proof. There will be renovations to 2nd floor. Cynthia can help to connect with SPR staff.

OED – No updates currently.

Patrice – pulled some info from the 2021 budget book into the capabilities table.

HSD – Division directors identified staff to provide information. The HMP seems more organized for “structures” not “people”. Have not yet included criteria. Identified one item to increase community capacity for emergency feeding, and a new plan learning from recent work for winter storm and COVID-19. Continuing capability from last plan carried forward.

Patrice – Not clear how HSD and OSE are working together on food access? Jill, not sure. HSD’s action is different than grocery vouchers and fresh bucks, HSD’s action is a strategic plan.

OPCD – Developing a BRIC applications for the Climate Adaptation Strategy for Duwamish Valley including a number of activities. We are accumulating (long term-leases, covenants) for properties not owned by the City- OCR, Equitable Development Initiative, Public Space PDA. What is our strategy for these buildings so they can deliver the benefits? David would like to include a project to have more discussion of these buildings which may be over 50-years old, historic, etc.

Erika – The mitigation grants previously have been City-owned facilities, but we do have the opportunity to apply on behalf of community or PDA for assets the City has an interest in protecting, if they meet FEMA requirements.

Patrice – We are also interested in collecting worksheet info for “potential projects” so this might fit in that category.

SPU – Have a lot of mitigation items from the three lines of business. There are a lot of fields to fill out, and staff has limited time. Confusion about the equity fields-e.g., if a water tank serves an entire neighborhood would benefit so difficult to identify as an equity project, but some are just system projects. Will OEM have comments on worksheets.

Patrice – Just give us as much info as possible that OEM can use to do an equity analysis. So, at a minimum include location info.

SDOT – Roadway structures was audited including bridge structures. SDOT will be focusing on prioritizing assets to preserve “resilient corridors” – that we need to maintain for first responders if a disaster happens.

ITD – No updates at this time.

Seattle Public Schools – KC has a template that SPS can use to be included in the KC Mitigation Plan. Most of SPS projects are planning and funded through levies. BEX 5, most recent levy, allowed all schools to have the same level of security and other safety measures (fencing, card access, etc.). Security will be focused on schools with high crime or schools where superintendent has made a commitment to African American communities.

Updated Capabilities

Patrice highlighted remaining gaps in the capabilities assessment

Discussion:

Status of Current Actions

Patrice Carroll identified remaining gaps in the status table.

Actions for 2021

The Mitigation

Schedule & Wrapup

Our schedule called for having a Public Draft by mid-November. How much time do you need? Note that public comment period can be used to do some additional internal review. We could push the plan back a week or so but can't push it back much if we want to complete by end of year. Could push back but leaves less time after the comment period. Some MWG members could meet deadline, but others would be very difficult to meet a Nov 13 deadline. Can an action be added after the comment period?

Erika – Would need to double check, but I think there is some flex time to add an action after the Draft.

Final Meeting is Dec 14th. If we need to schedule an interim meeting, we could try to do that. Thank you for participating!

Seattle All Hazards Mitigation Plan – 5 Year Revision

Name	Department/Agency	9/28/20 Mtg
Flossie Pennington	Arts and Culture	X
Jennifer Devore	Budget Office	
Kara Main Hester	Budget Office	
Jana Elliot	City Light	X
Micah Chappell	Construction & Inspection	X
Sarah Sodt	Dept of Neighborhoods, Historic Preservation	
Jessica Sidhu	Economic Development	X
Erika Lund	Emergency Management	X
TJ McDonald	Emergency Management	X
Laurel Nelson	Emergency Management	
Lucia Schmit	Emergency Management	X
Elenka Jarolimek	FAS	X
Julie Matsumoto	FAS	
Andy (James) Collins	Fire	X
Dan Foley	Housing	
Jill Watson	Human Services Department	X
Dennis Reddinger	Libraries	
TBD	Office of Sustainability and Environment	
Jon Jainga	Parks & Recreation	
Scott, Stevens	Parks & Recreation	
Cynthia McCoy	Seattle Parks and Recreation/ Seattle Public Utilities	X
Patrice Carroll	Planning and Community Development/ OEM	X
David Goldberg	Planning and Community Development	X
Kati Davich	<i>Port of Seattle</i>	
Addison Houston	Public Health Seattle King County	X
Michael Godfried	Seattle Public Utilities (Resilience)	X
Jae Lee	Seattle Center	
Jared Cummer	<i>Seattle Housing Authority</i>	X
Mary Wylie	Seattle IT	X
Clinton Kaku	Seattle IT	
Benjamin Coulter	<i>Seattle Public Schools</i>	X
Kit Loo	Transportation	X

Seattle All-Hazards Mitigation Plan 5 Year Update

Mitigation Work Group

Meeting #4: Finalize Mitigation Actions



AGENDA MEETING #4

1. *Welcome*
2. *Recap*
3. *Department Round Robin on:*
 - *Updated Capabilities*
 - *Status of Current Actions*
 - *Mitigation Actions for the 2021 Plan*
4. *Schedule*



Current 2015 - 2021 All-Hazard Mitigation Plan Overview

- **Chapter 1 – Introduction.** Identifies the authorities on which the plan is based, describes the plan's purpose and scope, describes how the plan is organized, and identified changes to the plan since 2009.
- **Chapter 2 – Planning Process.** Describes the process used to update the plan, including data sources and plan integration activities, outreach and engagement strategies, MWG activities, and plan development milestones.
- **Chapter 3 – Community Profile.** Provides a summary community profile for the City of Seattle including geographic, demographic, and economic characteristics that make the City unique. A full community profile is provided in the Seattle Hazard Identification and Risk Assessment document in Appendix A.
- **Chapter 4 – Hazard Identification and Vulnerability Analysis.** Contains a summary of the hazards that could potentially impact the City, including a hazard ranking table. Full hazard profiles and vulnerability assessment information is provided in the Seattle Hazard Identification and Risk Assessment document in Appendix A.
- **Chapter 5 – Capability Assessment.** Identifies the existing mitigation capabilities of City departments and highlights mitigation accomplishments over the last planning cycle.
- **Chapter 6 – Mitigation Strategy.** Provides updated goals and objectives for the City's mitigation program and identifies a comprehensive set of prioritized mitigation actions that would contribute to the City's resiliency.
- **Chapter 7 – Program Implementation.** Describes the City's plan for monitoring, evaluating, and updating the Seattle HMP over the next five-year period.



RECAP OF MEETING #3

- HMP Framework & Goals
- HMP Actions, Worksheet & Prioritization
- Integrating Equity
- Updating Status of 2015-2021 Actions

Meeting agenda, video, presentation and notes available on “MWG Mtg” Channel



Capabilities

Word Document

Existing Mitigation Capabilities - Office of Emergency Management

Capability	Capability Type	Description	Key Accomplishments (2009-2015)	Hazard Mitigated
Neighborhood and Individual Preparedness Programs	Education, and Outreach	These programs provide all-hazard preparedness information and training to Seattle's diverse communities, individuals, families, neighborhoods, businesses, schools, and community-based organizations. Programs include Seattle Neighborhoods Actively Prepare (SNAP), the OEM website, Community Emergency Hubs, and Education Campaigns.	<ul style="list-style-type: none"> Ongoing programs. 	All Hazards
Home Seismic Retrofit Program	Education and Outreach	This free training program promotes home seismic retrofit within Seattle and the region. Introductory class covers how individuals can perform the retrofit themselves, as well as consumer education on working with trained contractors. A course is offered in coordination with Seattle's Department of Planning and Development (DPD), which developed a set of standardized plan sets, issues permits, and performs inspections.	<ul style="list-style-type: none"> Over the past five years, home seismic retrofit classes have been consistently well-attended, averaging 25 to 40 attendees per class. Classes are offered six to 10 times a year in libraries throughout Seattle. Seattle DPD issues an estimated 100 seismic retrofit permits a year. 	Earthquakes



Status

Excel Spreadsheet

Need ASAP		Need by end of 2020		Need ASAP	Need by end of 2020
		For Completed Actions		For Uncompleted Actions & 2021 Revision	
Status (e.g. on-going, completed, dropped w/ justification and activity to date)	Date and Source of status information	Mitigation Benefit: Description of how hazard impact has been reduced and/or losses avoided (Refer to outcome studies/reports as appropriate)	Year Completed	Action should be: 1) Carried over as is, 2) Revised, 3) Removed, or 4) Moved to Capability section	Notes, Rationale & Source of Information



MITIGATION STRATEGY FRAMEWORK

Goals (6 goals)

Long-term outcome achieved through mitigation planning and implementation

Objectives (18 objectives)

Help to define, group, organize actions. Objectives are broader than specific actions and connect goals with actual mitigation actions.

Actions (54 actions)

Specific action taken to reduce risks from hazards and their impacts.

4.5 Average Actions/Dept (range 1 to 12 actions)

GOALS

1. Protect life and safety and promote community resiliency. **11%**
2. Safeguard critical infrastructure and ensure continuity of service. **24%**
3. Protect public and private property. **52%**
4. Protect the natural environment and cultural and historic resources. **NEW IN 2015 4%**
5. Promote a resilient economy. **CHANGED 2020 2%**
6. Promote a collaborative and integrated mitigation program. **NEW IN 2015 7%**

Note: Did not add a new equity goal. Did add questions and racial equity impact criteria in Worksheet.



TYPES OF ACTIONS

- **Plans and Regulations.** Regulatory actions or planning processes that result in reducing vulnerability to hazards. **15%**
- **Assessments and Studies.** Actions taken to better understand the potential impacts of identified hazards. An example would be seismic studies of City facilities. **24%**
- **Infrastructure/Capital Projects.** Actions taken to modify existing buildings or structures to protect them from a hazard. **39%**
- **Non-Structural Mitigation Measures.** Physical actions taken that don't include structural modifications. An example would be efforts to secure furniture or installation of backup generators. **11%**
- **Natural Systems Protection.** Actions that, in addition to minimizing hazard losses, preserve or restore the functions of natural systems. **2%**
- **Education and Awareness.** Actions taken to inform and educate residents, elected officials, and property owners about hazards and potential ways to mitigate them. **9%**

Notes: Examples on page 2-3 of the Worksheet Instructions. Removed "Preparedness and Response" as a type of action.



MITIGATION ACTION WORKSHEET

Descriptive Information

- Action Description
- Lead or Supporting; Department/Organization
- Action Status (New, Existing, Potential)
- Type of Action
- Hazards Addressed (18 categories in SHIVA)
- Goals Supported (6 goals)
- RSJI Focus Areas (6 focus areas: Inclusive Economy, Climate Justice, Community Safety, Community Supports, Community Wealth Building, Education Opportunity)
- Location & Benefit Area
- Timeline (Action = 1-5 years; Potential Action = 5+ years)
- Anticipated Cost (High, Medium, Low)
- Funding Available/ Funding Source (existing budget, grants, bond/levy)

Link to 2020 worksheet and instructions in Chat



MITIGATION ACTION WORKSHEET

Prioritization Criteria

Mitigation Effectiveness

Mitigation Effectiveness. Will the implemented action result in lives saved?

Mitigation Effectiveness. Will the implemented action result in a reduction of disaster damage?

Multiple Benefits. Will the action provide multiple community benefits beyond mitigation?

Collaboration. Will the action involve collaboration between City departments and/or the community?

Racial Equity. Will the action reduce hazard vulnerability for BIPOC communities?

STAPLEE

Is it **Socially** acceptable?

Is it **Technically** feasible and potentially successful?

Does responsible agency/department have the **Administrative** capacity to execute this action?

Is it **Politically** acceptable?

Is there **Legal** authority?

Is it **Economically** beneficial?

Will the project have a neutral or positive impact on the natural **Environment**



MITIGATION ACTION WORKSHEET

Descriptive Information

- Action Description
- Lead or Supporting; Department/Organization
- Action Status (New, Existing, Potential)
- Type of Action
- Hazards Addressed (18 categories in SHIVA)
- Goals Supported (6 goals)
- RSJI Focus Areas (6 focus areas: Inclusive Economy, Climate Justice, Community Safety, Community Supports, Community Wealth Building, Education Opportunity)
- Location & Benefit Area
- Timeline (Action = 1-5 years; Potential Action = 5+ years)
- Anticipated Cost (High, Medium, Low)
- Funding Available/ Funding Source (existing budget, grants, bond/levy)

Link to 2020 worksheet and instructions in Chat



DEPARTMENT ROUND ROBIN

Share your experience, progress, ideas with MWG

1. Where are you in the process?
2. What **Capabilities** have been added, deleted or still considering?
3. Are you able to fill in all the **Status** info requested for mitigation actions in the current plan?
4. What's your process for generating **Mitigation Actions** for the 2021 Plan?
5. Where is more guidance or clarification needed?
6. Are you getting input from key people in your department?
7. How can OEM help- suggestions, best practices, convening?



SCHEDULE

Hazard Mitigation Work Group Meeting 1	January 27, 2020
Planning process paused for Covid-19 response	
Hazard Mitigation Work Group Meeting 2	September 14, 2020 11am-12 noon
Hazard Mitigation Work Group Meeting 3 Capabilities & Status of Current Actions Due	September 28, 2020 11am-12 noon
Mitigation Actions Due	October 28, 2020 Nov 13
Hazard Mitigation Work Group Meeting 4	November 4, 2020 3:30-4:30 pm
Public Draft for Review and Comment	November 16, 2020 Nov 23
Public Comment Period (3 weeks)	November 16 – December 4, 2020 Nov 23 - Dec 11
Hazard Mitigation Workgroup Meeting 5	December 14, 2020 11am-12 noon
Final Draft for Review and Approval	December 31, 2020
Begin Approval Process	January 2021

What schedule can MWG commit to?



NEXT STEPS

- 1. Finalize content for release of Draft HMP**
- 2. Final Meeting in Dec**
 - Review comments received
 - Discuss any final changes, additions, prioritization
 - Review and finalize Section 6 - Implementation and Monitoring



Seattle All Hazards Mitigation Plan – 5 Year Revision Process

Hazard Mitigation Work Group (MWG) - Meeting #5

Date/Time: Monday December 14, 2020 11am – 12 noon

Location: Online Teams Meeting

Welcome 5 min	Erika Lund, Patrice Carroll
Schedule for Completion & Approval 20 minutes	Schedule for completion and approval by DMC, EEB, State, FEMA Discussion: How to fill remaining information gaps?
Public Comment Period 10 minutes	Discussion: How can your department support outreach during public comment period?
Plan Monitoring & Evaluation 20 minutes	Discussion: How will we keep the plan current- monitoring, evaluating, and updating the mitigation plan within a 5-year cycle?
Next Steps 5 Minutes	Additional MWG Mtg – January 25

All-Hazard Mitigation Plan Update Milestones:

Hazard Mitigation Work Group Meeting 1	January 27, 2020
Planning process paused for Covid-19 response	
Hazard Mitigation Work Group Meeting 2	September 14, 2020 11am-12 noon
Hazard Mitigation Work Group Meeting 3 Capabilities & Status of Current Actions Due	September 28, 2020 11am – 12 noon
Mitigation Actions Due	October 28, 2020
Hazard Mitigation Work Group Meeting 4	November 4, 2020 3:30-4:30 pm
Hazard Mitigation Workgroup Meeting 5	December 14, 2020 11am-12 noon
Public Draft for Review and Comment	January 4, 2021
Public Comment Period (3 weeks)	January 4 -22, 2021
Hazard Mitigation Workgroup Meeting 5	January 25, 2021 11am-12 noon
Final Draft – Begin Review and Approval Process	February 1, 2021

Seattle All Hazards Mitigation Plan – 5 Year Revision Process

Hazard Mitigation Work Group 2020 Members:

Name	Department/Agency
Flossie Pennington	Arts and Culture
Jennifer Devore	City Budget Office
Kara Main Hester	City Budget Office
Jana Elliot	City Light
Brittany Barnwell	City Light
Micah Chappell	Construction & Inspection
Sarah Sodt	Dept of Neighborhoods, Historic Preservation
Jessica Sidhu	Economic Development
Erika Lund	Emergency Management
TJ McDonald	Emergency Management
Laurel Nelson	Emergency Management
Lucia Schmit	Emergency Management
Elenka Jarolimek	FAS
Julie Matsumoto	FAS
Andy (James) Collins	Fire
Dan Foley	Housing
Jill Watson	Human Services Department
Dennis Reddinger	Libraries
TBD	Office of Sustainability and Environment
Jon Jainga	Parks & Recreation
Scott, Stevens	Parks & Recreation
Cynthia McCoy	Seattle Parks and Recreation/ Seattle Public Utilities
Patrice Carroll	Planning and Community Development/ OEM
David Goldberg	Planning and Community Development
Kati Davich	<i>Port of Seattle</i>
Addison Houston	Public Health Seattle King County
Ned Worcester	Public Utilities
Michael Godfried	Public Utilities (Resilience)
Jae Lee	Seattle Center
Jared Cummer	<i>Seattle Housing Authority</i>
Lawrence Eichhorn	Seattle IT
Mary Wylie	Seattle IT
Benjamin Coulter	<i>Seattle Public Schools</i>
Patti Quirk	Transportation

Hazard Mitigation Work Group (MWG) Meeting #5 – Meeting Notes

Hosted by: The Seattle Office of Emergency Management (OEM)

Date/Time: Monday, December 14, 2020 11:00AM-12:00 PM

Location: Online

AGENDA:

Meeting Item	Duration	Presenter/Facilitator
Welcome	5 minutes	Patrice Carroll, OEM/OPCD
Schedule	20 minutes	Patrice Carroll, OEM/OPCD
Outreach	10 minutes	Patrice Carroll, OEM/OPCD
HMP Monitoring	20 minutes	Patrice Carroll, OEM/OPCD
Next Steps	5 minutes	Patrice Carroll, OEM/OPCD

ATTACHMENTS:

- Agenda, Presentation and Meeting Video available on Teams- MWG Meetings channel

MEETING SUMMARY

Welcome

Patrice Carroll and Erika Lund welcomed participants.

Schedule

Patrice Carroll presented the Revised Schedule, including the review and approval phase. Under the new schedule we will issue Draft HMP for public review and comment Jan 4, 2021, and have a plan ready for approvals by Feb. 1, 2021, and have a FEMA approved plan by July 2021. July is also when OEM will begin the EMAP recertification process.

Schedule includes review by two key stakeholder groups will review and approve the plan:

- Disaster Management Committee (DMC) will get a briefing in Dec and will formally review and approve the plan in Feb or March.
- Executive Emergency Board (EEB) will review and take vote to approve plan in April. EEB includes all directors (or representative) so they may have questions for MWG representatives about the plan. Some may have reached out to leadership already.

Information Gathered to Date

- Capabilities - 21 departments presented capabilities for the plan which is more than the last plan (only 15 departments). Still filling some gaps for three departments.
- Status of 54 actions in the last plan (from 12 departments). Less than half actions (43%) are “complete” and 1/3 are incomplete. We hope this plan will have fewer incomplete actions.
- Mitigation strategy for this plan so far includes about 40 actions from 11 departments. Not concerned this is less than the last plan. About ½ departments have submitted actions.

Public Comment Period

We are planning a 3 week public comment period. OEM will post plan on website, have a narrated presentation and send out notices via OEM media- newsletter, email lists.

Do other depts have networks that could be used to reach people who would be interested in this plan? This is outreach to external audiences. OEM is relying on MWG members to do any internal outreach to other staff in your department.

- Perhaps OEM could use the JIC to share information about the plan. OEM hasn't used the JIC for public outreach in the past.
- Question – Is SPU's integrated plan doing any outreach? Network for Duwamish Valley- may be excited to see a mitigation action.
- When would a link be available? There is a website for the plan, and the Draft will be posted on Jan 4.
- If you have other thoughts, add to the chat or send Patrice a note.

Plan Monitoring

FEMA and EMAP both require us to have a process to monitor the plan. The group reviewed and discussed the process in the last plan. OEM would like to improve this, and proposing:

- Have an annual review to report on progress and accomplishments, new needs, drop off things that aren't moving forward.
- MWG will also review any after action reports to discuss implications for HMP. OEM will issue an annual report.
- Use the LIST app to collect updated information about mitigation actions.
- MWG meets twice a year. Erika proposed the 1st meeting at the beginning of the year would focus on "new" ideas, and the 2nd meeting would focus on reporting on actions. OEM can't produce all this information on our own, so we would rely on MWG members to submit info for the annual report to see if we are meeting our goals. What is the easiest way to provide this information. If HMP is adopted mid-year, the first status report would be at the end of 2021 to show what the format is like, even though there might not be

Who is the audience? For this report the audience is internal. There will be a page in the OEM annual report that would highlight an exciting project or accomplishment.

How would the MWG interact with upcoming after action reports? There will be a citywide after action report on the response to COVID in Oct or Nov 2021, so hope we can add that to the MWG meeting agenda. SPD is also taking a look at the civil unrest incidents that occurred in 2020. Don't anticipate there will be an after action report for wildfire smoke because the EOC was not activated.

Reference to CIP projects should be just that were identified in the mitigation actions.

What is the commitment of the CBO on integrating mitigation projects into the CIP? Currently there isn't a strong commitment to mitigation projects, for example seismic projects are not prioritized. Ideally having a project in the HMP would help departments advocate for including some projects in the CIP, prioritize for CIP funding. The annual update is also an opportunity to capture capital projects that popped up but weren't in the plan.

What formats have other departments used for monitoring projects? Need to have someone responsible for doing it, sent out form (excel spreadsheet) to gather information.

Is the purpose of MWG meetings to make sure that actions are moving forward? Yes, that is a role for the MWG. Trying to focus on actions where the dept has a commitment. In the past, the larger department may not have been committed to progress. Hoping there is more

Are there opportunities to make mitigation priorities part of the levy planning process? Things are already underway for levy planning and happen outside the OEM world. Need to have those conversations early on. Hazard mitigation are not part of CIP or Levy initial planning periods. For the next public safety levy, those conversations need to happen now. The MWG could highlight when that planning is happening. Might include this topic into the briefing for the EEB. With climate change there will be more interdepartmental work that could help to integrate mitigation.

We could include in capabilities the levies and cycles in the plan could be helpful.

What happens following a major disaster? Current plan says there may be some special meetings for MWG after a disaster. OEM has included a mitigation question into after action surveys. Although some people have different interpretations of what mitigation is. What types of actions, capital projects, etc. could lessen impact of this disaster in the future. There isn't always an after action report, but could still be discussed at future MWG meeting (e.g. wildfire smoke). We could say in the plan that question is a tool we are using.

Would like to engage MWG in discussion about "equity actions" – are there equity indicators, are your departments already to RSJI toolkits on mitigation projects. What improvements would we make in future? OPCD's equity indicators and OSE's EJ identified EJ communities- we could build in some questions overall in reporting if work is specifically considering the differential need in these communities. OEM was also considering mapping where projects were benefiting. Perhaps OPCD could do a presentation about their equity work at a future meeting. But this is a question about how we plan in the City to directors, maybe it's a topic that gets integrated across departments? Could OEM pool result from One Concern earthquake scenarios to get a sense of the total numbers from residential and commercial to provide a preliminary idea of where and who is impacts- will change with 2020 census. OEM used it to run URM scenarios, not sure it would work for something like retrofit of a pump station.

Next Steps

We have scheduled a meeting in January in the event we need to discuss any outstanding issues.

Thank you for participating!

Seattle All Hazards Mitigation Plan – 5 Year Revision

Name	Department/Agency	9/28/20 Mtg
Flossie Pennington	Arts and Culture	
Jennifer Devore	Budget Office	
Kara Main Hester	Budget Office	
Brittany Barnwell	City Light	X
Jana Elliot	City Light	
Micah Chappell	Construction & Inspection	
Sarah Sodt	Dept of Neighborhoods, Historic Preservation	
Jessica Sidhu	Economic Development	X
Erika Lund	Emergency Management	X
TJ McDonald	Emergency Management	X
Laurel Nelson	Emergency Management	
Lucia Schmit	Emergency Management	X
Elenka Jarolimek	FAS	X
Julie Matsumoto	FAS	
Andy (James) Collins	Fire	X
Dan Foley	Housing	
Jill Watson	Human Services Department	X
Dennis Reddinger	Libraries	X
TBD	Office of Sustainability and Environment	
Jon Jainga	Parks & Recreation	
Scott, Stevens	Parks & Recreation	
Cynthia McCoy	Parks and Recreation/ Seattle Public Utilities	
Patrice Carroll	Planning and Community Development/ OEM	X
David Goldberg	Planning and Community Development	X
Kati Davich	<i>Port of Seattle</i>	
Addison Houston	Public Health Seattle King County	
Michael Godfried	Seattle Public Utilities (Resilience)	X
Jae Lee	Seattle Center	
Jared Cummer	<i>Seattle Housing Authority</i>	
Lawrence Eichhorn	Seattle IT	X
Mary Wylie	Seattle IT	X
Carrie Chitty	Seattle Police Department	X
Lt. Daniel Nelson	Seattle Police Department	X

Seattle All Hazards Mitigation Plan – 5 Year Revision

Benjamin Coulter	<i>Seattle Public Schools</i>	
Patti Quirk	Transportation	

Seattle All-Hazards Mitigation Plan 5 Year Update

Mitigation Work Group
Meeting #5:
Outreach & Monitoring



AGENDA MEETING #5

1. *Welcome*
2. *Schedule for Completion & Approval*
3. *Public Comment Period*
4. *Plan Monitoring & Evaluation*
5. *Next Steps*

SCHEDULE FOR COMPLETION

Public Draft for Review and Comment	January 4, 2021
Public Comment Period (3 weeks)	January 4-22, 2021
Hazard Mitigation Workgroup Meeting #6	January 25, 2021
Final Draft for Review and Approval	February 1, 2020
Current HMP Expires	February 16, 2021
Disaster Management Committee Approval	February 18, 2021
Executive Emergency Board Approval	March or April 2021
State & FEMA Review for Approvability	March – April 2021
City Council Adoption	May 2021
State & FEMA Approval	June/July 2021
EMAP Recertification Process	July 2021

Disaster Management Committee (DMC)

- Meets monthly
- 200+ members with representatives from:
 - City departments,
 - King County agencies
 - Local non-profits
 - NW Healthcare Response Network
 - University of Washington
 - 211 partners
 - Community Emergency Hubs
- Briefing in December
- Approval in February

Emergency Executive Board (EEB)

- Meets quarterly
- 37 members
- Sub-cabinet of Department Directors convened by Mayor's Office
- Approval at April Meeting

Link to EEB membership list in chat

Information Gathered

Capabilities & Status

- 21 departments reported Capabilities (16 in 2015)
- Capabilities Gaps: 3 departments?
- Status of 54 actions (12 depts)
 - 43% complete
 - 24% ongoing
 - 33% incomplete

Mitigation Actions

- 40 actions (54 in 2015)
- 11 of 21 MWG departments submitted actions (12 depts in 2015)
- Depts with actions: FAS, HSD, ITD, OEM, OPCD, OSE, SCL, SDOT, SPR, SPL, SPU

Public Comment Period

- January 4-22 (3 weeks)
- Draft HMP Posted on website
- Survey and dedicated email to collect comments
- Narrated PP Presentation on website
- Promote via OEM newsletter, social media, email lists,
- Ask DMC, SWG and Community Ambassadors to review and promote the Draft HMP to their networks

Discussion: How can your department support outreach for Draft HMP?

All-Hazard Mitigation Plan Overview

- **Chapter 1 – Introduction.** Identifies the authorities on which the plan is based, describes the plan’s purpose and scope, describes how the plan is organized, and identified changes to the plan since 2009.
- **Chapter 2 – Planning Process.** Describes the process used to update the plan, including data sources and plan integration activities, outreach and engagement strategies, MWG activities, and plan development milestones.
- **Chapter 3 – Community Profile.** Provides a summary community profile for the City of Seattle including geographic, demographic, and economic characteristics that make the City unique. A full community profile is provided in the Seattle Hazard Identification and Risk Assessment document in Appendix A.
- **Chapter 4 – Hazard Identification and Vulnerability Analysis.** Contains a summary of the hazards that could potentially impact the City, including a hazard ranking table. Full hazard profiles and vulnerability assessment information is provided in the Seattle Hazard Identification and Risk Assessment document in Appendix A.
- **Chapter 5 – Capability Assessment.** Identifies the existing mitigation capabilities of City departments and highlights mitigation accomplishments over the last planning cycle.
- **Chapter 6 – Mitigation Strategy.** Provides updated goals and objectives for the City’s mitigation program and identifies a comprehensive set of prioritized mitigation actions that would contribute to the City’s resiliency.
- **Chapter 7 – Program Implementation.** Describes the City’s plan for monitoring, evaluating, and updating the Seattle HMP over the next five-year period.

Keeping the HMP Current

EMAP

4.2.3 The Emergency Management Program has a process to monitor overall progress of the mitigation activities and documents completed initiatives and their resulting reduction or limitation of hazard impact on the jurisdiction.

FEMA

A6. Is there a description of the method and schedule for keeping the plan current (monitoring, evaluating and updating the mitigation plan within a 5-year cycle)? (Requirement §201.6(c)(4)(i))

MWG Annual Review

- Progress made on plan during the previous 12 months.
- Mitigation accomplishments in projects, programs, and policies.
- Actual losses avoided and benefits achieved by actions.
- Status of mitigation projects included on the City's Capital Improvement Program (CIP) list.
- Emerging disaster damage trends and repetitive losses.
- Identification of new mitigation needs.
- Cancellation of planned initiatives, and the justification for doing so.
- Changes in membership to the MWG.
- After-Action Reports published that year.
- Annual review will be compiled into an Annual Mitigation Status Report.

Following a Major Disaster

In addition to annual update process, post-disaster MWG deliberations will also consider the following:

- “Lessons Learned” from the disaster and what new initiatives should be added to the plan to help reduce the likelihood of similar damage in the future.
- Follow-up needed on items relevant to mitigation from any after-action reports produced by the City.
- Integration of mitigation into the recovery process and coordination with City recovery planning efforts.

Mitigation Action Status and Tracking

- Project progress including status of project funding and ongoing needs.
- Actual losses mitigated or benefits gained by project implementation.
- Project needs that may be addressed in the next mitigation planning cycle.

Discussion: Can this information be captured annually? If not what could be reported?

NEXT STEPS

1. **Fill any information gaps**
2. **Provide contacts for coordinating outreach**
3. **Release of Draft HMP**
4. **Final Meeting in Jan**
 - **Review comments received**
 - **Discuss any final changes, additions, prioritization**

Seattle All Hazards Mitigation Plan – 5 Year Revision Process

Hazard Mitigation Work Group (MWG) - Meeting #6

Date/Time: Monday January 25, 2021 11am – 12 noon

Location: Online Teams Meeting

Welcome 5 min	Erika Lund, Patrice Carroll
Schedule for Completion & Approval 5 minutes	Schedule for completion and approval by DMC, EEB, State, FEMA
Comments Draft HMP 10 minutes	Discussion: Public Comments and MWG Comments
Prioritization Criteria 20 minutes	Scoring Criteria- Emap other uses
Keeping the Plan Current 10 Minutes	Future MWG Meetings
Questions, Comments Suggestions 10 Minutes	

All-Hazard Mitigation Plan Update Milestones:

Public Draft for Review and Comment	January 15, 2021
Public Comment Period (3 weeks)	January 15 -22, 2021
Hazard Mitigation Workgroup Meeting 5	January 25, 2021 11am-12 noon
Final Draft – Begin Review and Approval Process	February 1, 2020
Current HMP Expires	February 11, 2021
Disaster Management Committee Mtg. - Approval	February 25, 2021
Executive Emergency Board Mtg, - Approval	April 9, 2021
State & FEMA Review for Approvability	May 2021
Mayoral Promulgation & City Council Adoption	May 2021
State & FEMA Approval	June/July 2021
EMAP Recertification Process Begins	July 2021

Seattle All Hazards Mitigation Plan – 5 Year Revision Process

Hazard Mitigation Work Group 2020 Members:

Name	Department/Agency
Flossie Pennington	Arts and Culture
Jennifer Devore	City Budget Office
Kara Main Hester	City Budget Office
Jana Elliot	City Light
Brittany Barnwell	City Light
Micah Chappell	Construction & Inspection
Sarah Sodt	Dept of Neighborhoods, Historic Preservation
Jessica Sidhu & Amanda Allen	Economic Development
Erika Lund	Emergency Management
TJ McDonald	Emergency Management
Laurel Nelson	Emergency Management
Lucia Schmit	Emergency Management
Elenka Jarolimek	FAS
Julie Matsumoto	FAS
Andy (James) Collins	Fire
Dan Foley	Housing
Jill Watson	Human Services Department
Dennis Reddinger	Libraries
TBD	Office of Sustainability and Environment
Jon Jainga	Parks & Recreation
Scott Stevens	Parks & Recreation
Cynthia McCoy	Seattle Parks and Recreation/ Seattle Public Utilities
Patrice Carroll	Planning and Community Development/ OEM
David Goldberg	Planning and Community Development
Kati Davich	<i>Port of Seattle</i>
Addison Houston	Public Health Seattle King County
Ned Worcester	Public Utilities
Michael Godfried	Public Utilities (Resilience)
Jae Lee	Seattle Center
Jared Cummer	<i>Seattle Housing Authority</i>
Lawrence Eichhorn	Seattle IT
Mary Wylie	Seattle IT
Benjamin Coulter	<i>Seattle Public Schools</i>
Patti Quirk	Transportation

Hazard Mitigation Work Group (MWG) Meeting #6– Meeting Notes

Hosted by: The Seattle Office of Emergency Management (OEM)

Date/Time: Monday, January 25, 2021 11:00AM-12:00 PM

Location: Online

AGENDA:

Meeting Item	Duration	Presenter/Facilitator
Welcome	5 minutes	Patrice Carroll, OEM/OPCD
Updated Schedule	5 minutes	Patrice Carroll, OEM/OPCD
Comments in Draft	10 minutes	Patrice Carroll, OEM/OPCD
Criteria	20 minutes	Patrice Carroll, OEM/OPCD
Keeping Plan Current	10 minutes	Patrice Carroll, OEM/OPCD
Questions, Comments Suggestions	10 minutes	Patrice Carroll, OEM/OPCD

ATTACHMENTS:

- Agenda, Presentation and Meeting Video available on Teams- MWG Meetings channel

MEETING SUMMARY

Welcome

Erika welcomed MWG and noted that this was the last meeting for the update process and will be Patrice’s last meeting as the convener.

Updated Schedule

Patrice reviewed the schedule for the review and approval of the plan.

Final Draft for Review and Approval	February 1, 2020
Current HMP Expires	February 11, 2021
Disaster Management Committee Approval	February 25, 2021
Executive Emergency Board Approval	April 9, 2021
State & FEMA Review for Approvability	March – April 2021
Mayoral Promulgation	May 2021
City Council Adoption	May 2021
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EMAP Recertification Process Begins	July 2021

Patrice noted that the EEB meeting includes all directors, so MWG members may get questions about the plan. We do not know exactly how long the process will take but based on previous experience expect to have an approved plan by July 2021.

Some highlights of the plan

- Increased # of departments participating from 16 to 21
- Status of the 54 actions in the 2015 HMP actions included 43% complete, 24% ongoing and 33 % incomplete.
- Actions in 2020 plan totaled 44 actions from 12 departments.

Comments on Draft

Comment period ends Friday January 29. Also sent plan to State of WA for preliminary review. So far have not received any public comments. Similar reaction in the last update. Easier to engage people in a location specific project. Much harder for a citywide policy plan.

There is an editable document to capture MWG comment and changes on the Teams site. In future DMC or EEB may reach out to you as a MWG member to share their future comments.

Criteria

All of the information from the Mitigation Action worksheets have been entered into a master worksheet using the MS LIST app. Some of the fields are still empty, especially criteria. Please fill in as much information that you can, and especially criteria C1 and C2. If you do not fill it in Patrice and Erika will fill in (likely with “medium”) so we can turn those into a “loss score.” The loss criteria are not the only important ones, but this is a standard in EMAP. Does not mean projects will be implemented in that order, but it is one lens that EMAP wants to see in OEM’s planning.

Patrice recommends working on the Worksheet in Sharepoint because it has some extra features: add comments, attachments (e.g. longer project description).

Keeping the Plan Current

This is the last meeting to talk about the HMP Update. MWG will have two meetings each year.

- Spring Meeting: more strategic items, emerging issues, after actions, integrating RSJI
- Fall Meeting: yearly check in on status of plan, annual mitigation status report
- Both Meetings: grant cycles and proposals (e.g. BRIC)

Other ideas for MWG future workplan and items

- Will help to build mitigation awareness in all departments.
- Is idea of new mitigation needs- is that City specific or at-large? Erika would like to talk about needs more broadly as this could be partnerships opportunities. The HMP includes City programs to support partnerships and community-led investments. Mitigation projects could come up through those processes.
- Take a look of the hazard analysis to look at areas outside the City: watersheds, transmission lines, etc. What should we address in the next SHIVA update? TJ and Cynthia offered to work with TJ on these issues. Patrice noted many more actions in the HMP that are beyond the City proper.

Questions, Comments, Suggestions

Potential change to timeline. Where actions extend beyond 5 years, could there be a choice for 5+ years to show where long term plans are being implemented? Might think about that next year to think about how we categorized the long-term programs (e.g. SDOT Bridge Seismic project).

It was helpful to have consistent templates to gather information. Could we have that information earlier.

Erika asked how MWG How did people find the Teams for this planning work? Are in-person meetings better for our 2 meetings a year?

- Having the option to be on Teams is good, but like getting out of the office too.
- Some of the elements could have been workshopped, would have been better in-person.
- Hybrid (some in-person/ some online) might work.
- Strategic meetings benefit from face-to-face interactions. Might encourage people to participate in those sessions in person.
- Gathering status information was challenge because of staff changes.
- Many projects are complex but have no funding. How do those projects get funded? Different stakeholder groups that can help or hurt those projects to get funded. How can we help make those projects rise in priority in other decision processes (CIP, levy planning, etc.)?
- Would like to create some mitigation stories to get more involvement from the community. Look at other places to see how they tell their mitigation stories.

Thank you for participating!

Seattle All Hazards Mitigation Plan – 5 Year Revision

Name	Department/Agency	1/25/21 Mtg
Flossie Pennington	Arts and Culture	
Jennifer Devore	Budget Office	
Kara Main Hester	Budget Office	
Jana Elliot	City Light	X
Micah Chappell	Construction & Inspection	
Sarah Sodt	Dept of Neighborhoods, Historic Preservation	
Jessica Sidhu	Economic Development	
Erika Lund	Emergency Management	X
TJ McDonald	Emergency Management	X
Laurel Nelson	Emergency Management	
Lucia Schmit	Emergency Management	X
Elenka Jarolimek	FAS	X
Julie Matsumoto	FAS	
Andy (James) Collins	Fire	
Dan Foley	Housing	
Jill Watson	Human Services Department	X
Dennis Reddinger	Libraries	
TBD	Office of Sustainability and Environment	
Jon Jainga	Parks & Recreation	
Scott, Stevens	Parks & Recreation	
Cynthia McCoy	Seattle Parks and Recreation/ Seattle Public Utilities	X
Patrice Carroll	Planning and Community Development/ OEM	X
David Goldberg	Planning and Community Development	X
Kati Davich	<i>Port of Seattle</i>	
Addison Houston	Public Health Seattle King County	
Michael Godfried	Seattle Public Utilities (Resilience)	X
Jae Lee	Seattle Center	
Jared Cummer	<i>Seattle Housing Authority</i>	
Lawrence Eichhorn	Seattle IT	X
Clinton Kaku	Seattle IT	
Benjamin Coulter	<i>Seattle Public Schools</i>	
Patti Quirk	Transportation	

Seattle All-Hazards Mitigation Plan 5 Year Update

Mitigation Work Group
Meeting #6:
HMP Wrap-Up

1/25/2021

Seattle Office Of Emergency Management



City of Seattle

AGENDA MEETING #6

1. *Welcome*
2. *Schedule for Review and Approval*
3. *Comments Draft HMP*
4. *Worksheets/ Prioritization Criteria*
5. *Keeping the Plan Current*



SCHEDULE FOR REVIEW AND APPROVAL

Final Draft for Review and Approval	February 1, 2020
Current HMP Expires	February 11, 2021
Disaster Management Committee Approval	February 25, 2021
Executive Emergency Board Approval	April 9, 2021
State & FEMA Review for Approvability	March – April 2021
Mayoral Promulgation	May 2021
City Council Adoption	May 2021
State & FEMA Approval	June/July 2021
EMAP Recertification Process Begins	July 2021



DRAFT HMP AT A GLANCE

Capabilities & Status

- 21 departments reported Capabilities (16 in 2015)
- Status of 54 actions (from 12 depts)
 - 43% complete
 - 24% ongoing
 - 33% incomplete

Mitigation Actions

- 44 actions (54 in 2015)
- 12 of 21 MWG departments submitted actions (12 depts in 2015)
- Depts with actions: FAS, HSD, ITD, OEM, OPCD, OSE, SCL, SDCI, SDOT, SPR, SPL, SPU



PUBLIC COMMENT PERIOD

- January 15-29 (2 weeks)
- Draft HMP Posted on website
- Survey and dedicated email to collect comments
- Narrated PP Presentation on website
- Promote via OEM newsletter and social media
- Ask DMC and SWG to review and promote the Draft HMP to their networks
- State of WA – informal preliminary review



Mitigation Work Group Comments

- January 15-29 (2 weeks)
- Draft HMP Posted on Teams/SharePoint
- Word Format/ Track Changes
- Gather comments from others in your Dept; add to this version
- Questions / comments?



MITIGATION ACTION WORKSHEETS

- Info added to List App on Teams/SharePoint
- Check information
- Fill in any gaps as much as possible.
- HIGHEST PRIORITY CRITERIA (Needed for EMAP Accreditation - Don't leave blank)
 - C1 Lives Saved - Will the implemented action result in lives saved?
 - C2 Reduce Damage - Will the implemented action result in a reduction of disaster damage?
- Questions / comments?



MITIGATION ACTION WORKSHEETS

<p>Comprehensive Plan Update</p> <p>1a. Mitigation Action Name * Comprehensive Plan Update</p> <p>2c. Supporting Dept/ Org All Depts</p> <p>6b. RSJL Focus Areas Inclusive Economy, Community Safety</p> <p>8. Timeline 1-3 years</p> <p>11a. Contact Name Michael Hubner</p> <p>C3-Multiple Benefits High</p> <p>C8-Administrative High</p> <p>Attachments Add or remove attachments</p>	<p>Number DPCD1</p> <p>3. Action Status New</p> <p>6c. Description Plan for future growth in ways that enhances equity and mitigates impacts to BIPOC communities.</p> <p>9a. Anticipated Cost (if known) 500,000</p> <p>11b. Phone 684-8380</p> <p>C4-Collaboration High</p> <p>C9-Political High</p>	<p>1b. Mitigation Action Description WA Growth Management Act requires Seattle to update the comprehensive plan by June 2023. This is a foundational plan that guides Seattle's growth and development. See more.</p> <p>4. Type of Action Plans and Regulations</p> <p>7a. Location * Citywide, no specific or targeted location</p> <p>9b. Funding Available Anticipated</p> <p>11.c E-Mail michael.hubner@seattle.gov</p> <p>C-5 Racial Equity High</p> <p>C10-Legal High</p>	<p>2a. Lead Dept/ Org DPCD</p> <p>5. Hazards Addressed All Hazards</p> <p>7b. Location Description citywide plan</p> <p>9c. Funding Source -</p> <p>C1-Lives Saved Low</p> <p>C6-Social Medium</p> <p>C11-Economic Low</p>	<p>2b. Division/ Line of Business (if applicable) Long Range Planning</p> <p>6a. HMP Goals Supported Life and Safety, Integrated Planning, Critical Infrastructure Protection, Property Protection, Resilient Economy, Natural Resource Protection</p> <p>7c. Benefit Area Citywide</p> <p>10. Date October 8, 2020</p> <p>C2-Reduce Damage Low</p> <p>C7-Technical High</p> <p>C12-Environment Medium</p>	<p>Comments</p> <p>Add a comment</p> <p>Be the first one to add a comment</p>
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KEEPING THE HMP CURRENT- ROLE OF MWG

SPRING MWG MTG - STRATEGIC

- Emerging disaster damage trends and repetitive losses.
- Identification of new mitigation needs.
- Changes in membership to the MWG.
- After-Action Reports published that year.
- Equitable Mitigation

FALL 2021 MWG MTG - STATUS

- Updates on Mitigation Actions
 - Status
 - Accomplishments
 - Cancelled actions
 - For completed projects - Actual losses avoided and benefits achieved by actions.
- New mitigation projects included in CIP or Upcoming Levies
- Grant Opportunities - BRIC
- Annual Mitigation Status Report

Discussion: Other topics or activities for MWG Meeting?



WE DID IT!!!!

- Final questions, comments, suggestions?
- THANK YOU EVERYONE!!!





City of Seattle
Office of Emergency Management
Disaster Management Committee (DMC) Meeting
February 25, 2021 @ 10:30AM to 12PM

Welcome & Introductions – Curry Mayer, OEM

VOTE – *Hazard Mitigation Plan – Patrice Carroll & Erika Lund, OEM*

This is the 5-year update to the Hazard Mitigation Plan, which offers us a chance to combine City planning efforts to promote hazard mitigation and allows us to stay eligible for FEMA mitigation grants. Those of you able to attend the 12/17/2020 DMC meeting had a briefing on plan content, process, and status at that time. With the help of Patrice Carroll, on loan from OPCD, and the Mitigation Work Group members, we have completed the review draft. DMC review is the next step in the HMP's approval process, and we will be asking for a vote as part of the upcoming DMC meeting on February 25, 2021. *(See attached email for details.)*

Please share with other interested colleagues and we look forward to you joining us on **Thursday, February 25th at 10:30 AM to 12 PM.**
Virtual appointment details follow below.

**Disaster Management Committee
February 25th, 2021
Meeting Summary**

<u>Action Items:</u>	
Item	Lead
• Welcome & Introductions	Curry Mayer - OEM
• Vote on the Hazard Mitigation Plan	Patrice Carroll & Erika Lund - OEM
Next DMC March 25th, 2021 10:30 AM – 12:00 noon WebEX Meeting	

Curry Mayer welcomed everyone to the meeting and introduced Erika Lund and Patrice Carroll.

VOTE – Hazard Mitigation Plan – Patrice Carroll & Erika Lund, OEM

5-year update to the Hazard Mitigation Plan, brief pause during COVID response. Patrice has been critical in getting these updates completed.

Sent out draft for review last week and will be voting on it today.

Erika and Patrice provided a PowerPoint presentation (attached to these notes as a PDF) that included history of planning process.

Today’s presentation will be a high fly over of the review of the Hazard Mitigation Plan which is a comprehensive document that weaves together all mitigation actions that various city departments have accomplished over the last 5-years as well as including an updated Seattle Hazard Impact and Vulnerability Assessment (SHIVA) Once it is approved today, it will go to the Mayor’s Emergency Executive Board (EEB) for approval, the Mayor will promulgate to City Council for their vote, the plan will be sent to State EMD and FEMA for both their approval. This last step is significant as it qualifies Seattle to be eligible for federal reimbursement. Last, but not least, the acceptance of the Hazard Mitigation Plan is an important benchmark in Seattle’s re-accreditation with the Emergency Management Accreditation Program (EMAP) which will take place this Fall.

Mitigation Strategy for the Hazard Mitigation Plan Framework:

Long-term outcome achieved through mitigation planning and implementation.

6 Goals:

- Protect life.
- Safeguard infrastructure.
- Protect public/private property.
- Protect the environment – new in 2015.
- Promote a resilient economy.
- Promote a collaborative mitigation plan.

What is new for this update?

- Impacts of COVID-19 on process, staff availability and public engagement.
- Expand the number of departments included in the process.
- Listing of major citywide plans, codes, and funding levels.

Disaster Management Committee

February 25th, 2021

Meeting Summary

- Evolving information on community-led investments.
- Adjust criteria to reflect values – RSJI, collaboration, multiple benefits.
- FEMA influences integrated planning, making us more competitive in their Building Resilient Infrastructures and Community (BRIC) grants that fund larger projects.
- Meet EMAP requirements – Seattle seeking recertification.

The Hazard Mitigation Plan began with the SHIVA, which was published in 2013 and updated in 2018-2019.

6 types of hazards likely to happen in the Seattle area according to the Hazard Mitigation plan:

- Climate change
- Geologic
- Biologic
- Intentional
- Infrastructure
- Weather

Plans for the next 5 years:

- Continue retrofits to bridges and dams.
- Retrofit of three of the eight Carnegie libraries in Seattle.
- Integrate mitigation policies into the next Comprehensive Plan Update.
- Design multi-purpose infrastructure to protect South Park from sea level rise.
- Replace sea wall on N. Northgate Way.
- Seismic upgrades for the Riverton and Eastside reservoirs (outside Seattle jurisdiction).

Racial Equity and Mitigation

OEM 1- Expand partnerships for community led mitigation projects.

OEM 2 - Undertake an analysis to better integrate racial equity into the hazard mitigation program.

Outreach and Engagement

- Developed and outreach plan to account for COVID-19 social distancing restrictions.
- Sharing information via OEM newsletter (Oct, Nov, and Jan)
- Community Safety Ambassadors (CSA) survey
- Accessible materials (handouts and videos)
- 2-week comment period in January
- Input from Key stakeholders SWG, DMC, EEB most input was from these stakeholders, though the public was interested in the content.

Suggestions made from this review by DMC members include:

- Grammatical edits and corrections.
- Add content re: Seattle Fire Code.

TJ McDonald author of the SHIVA explained how the SHIVA was developed. Hazards are reassessed during each update which does result in re-ranking with each update. Highest hazard will dictate how Seattle Plans for hazards.

Disaster Management Committee February 25th, 2021 Meeting Summary

Next formal update to the SHIVA will be in 2022 though it is in constant review for edits.

Additional changes or questions:

Question: Does the ranking of Hazards influence out work priorities?

Answer: Departments have some influence based on their priorities. Though some things, like earthquakes are a constant. Some projects address multiple hazards, the most heavily addressed of which is earthquakes.

Vote

Curry asked for questions or comments prior to the vote.

- Laurel Nelson thanked Patrice on her incredible level of work in getting the HMP updated during this very difficult time responding to COVID.

Curry asked for a motion to accept the Hazard Mitigation Plan.

- Annie Searle motioned to accept the Hazard Mitigation Plan.
- Patti Quirk seconded the motion.
- A vote was taken and the Hazard Mitigation Plan passed unanimously.



DMC

2-25-2021-HMP Pres

Good of the Order:

Group and individual KUDOS and appreciation for Patrice Carroll for her work with OEM and the group on the Hazard Mitigation Plan.

Attendees					
Organization	Contact	Present	Organization	Contact	Present
CBO	Kara Hester-Main		DON	Tom Van Bronkhorst	X
CBO	William Chen		SPR	Jon Jainga	X
FAS	Jason Phillips		SPR	Will Beatie	X
FAS	Elenka Jarolimek	X	SCL	Jana Elliott	
FAS	Bruce Hori		SCL	Brittney Barnwell	
FAS	Randy Cox		Mayor's Office	Maritza Rivera	X
FAS	Torie Brazitis		King County	Nicholas Gibbons	
FAS	Chris Wiley		King County Public Health	Ali Levy	
FAS	David Kunselman	X	King County Stormwater Services	Mary Rabourn	

Disaster Management Committee
February 25th, 2021
Meeting Summary

ART	Flossie Pennington		SHR	Bobby Humes	
HSD	Jill Watson	X	SDCI	Kai Ki Mow	
HSD	Deborah Witmer	X	SPD	Sean O'Donnel	X
HSD	Lisa Gustaveson		SDOT	Patti Quirk	X
ITD	Dave Sutton	X	SDOT	Darren Morgan	
Seattle IT (ITD)	Harvey Arnone	X	SFD	James Collins	
Seattle IT (ITD)	Lawrence Eichhorn	X	SFD	Tony Lucero	X
Seattle IT (ITD)	Mary Wylie	X	SFD	Darian Davis	X
Legislative	Chris Galbraith	X	SFD	David Cuerpo	
PCD	Patrice Carroll	X	DON	Erin Chevront	X
CEN	Nate Brend		SPS	Benjamin Coulter	
Seattle Center	Katie Plymale		SPU	Ned Worcester	
OED	Meli Darby	X	SPU	Walter Vining	X
OED	Amanda Allen		SPU	Chad Buechler	X
OIR	Stacey Jehlik		SPU	Mark Jaeger	X
OIRA	Peggy Liao	X	SPU	Katie Dillon	
City Attorney	Gurjot Narwal	X	SPU	Ty Barrett	
City Attorney	Stephanie Dikeaks		PHSKC	Refram Patel	
OEM	Kate Hutton		PHSKC	Carina Elsenboss	
OEM	Matt Auflick		SPU	Linda Johnson	
OEM	Jennifer Carr		SPS	Carrie Nicholson	
OEM	Erika Lund	X	Crisis Connections	Avelino Estrada	
OEM	Ivan Lee	X	OLS	Yolanda Davis	
OEM	TJ McDonald	X	Seattle HUBS	Cindi Barker	X
OEM	Ken Neafcy	X	NWHRN	Cameron Taylor	
OEM	Laurel Nelson	X	NWHRN	Onora Lien	
OEM	Carrie Brazil		City of Shoreline	Jennifer Lord	
OEM	Chris Carmen	X	Sound Transit	Lori Bisping	
OEM	Tey Thach		Port of Seattle	Russ Read	
OEM	Lucia Schmit		Puget Sound Fire	Joe Root	
OEM	Carrie Tittel	X	Visit Seattle	Dave Blandford	
OEM	Curry Mayer	X			
OEM Volunteer	Chris Newling		Seattle University	Chris Wilcoxon	
Seattle U	Craig Buckton		Vashon Be Prepared	John Cornelison	
SMC	Elisa Sansalone		Zone 3	Sarah Miller	
SMC	Elisa Sansalone	X	National Weather Service	Reid Wolcott	X
SDCI	David Hudack		Harborview	Mark Taylor	
SDCI	Andrew Lunde		Volunteer	Bob Chandler	
SPU	Spruce Metzger	X	Volunteer	Diane Sugimura	

Disaster Management Committee
February 25th, 2021
Meeting Summary

Seattle Housing	Erica Snyder	X	One Concern	Debbie Weiser	
Seattle Housing	Janet Rodriguez	X	Seattle Commission for People with Disabilities	Kristina Sawyckyj	
Washington Department of Commerce	Tristan Allen		SNAP Volunteer	Helen Murphy	
WA. NG 10 th HRF	Travis Wise		PNWER/CRDR	Eric Holdeman	
Seattle Colleges District	Michelle Valint		PNNL	Jessica Gray	
U of W Emergency Mgmt	Steve Charvat		US Coast Guard	Paul Stocklin	
ACS	Casey Hickerson		US Coast Guard	Aoe Bolling	
Lake City Hubs/ACS	Susanna Cunningham		US Coast Guard	Ed Gailer	
SNAP / Hubs	Ann Forest	X	Martin Smith, Inc	Ryan Smith	
Seattle ACS	Mark Sheppard		American Red Cross	Patrick Zweben	
Boeing.	Leah Rush	X	American Red Cross	Jamie Hill	X
US Attorney's Office	Michael Marzano		Hearing Examiner Office	Bonita Roznos	
WA EMD	Patrich Wicklund		KC Emergency Management	Barnaby Dow	X
Crisis Connections	Sylvia Fuerstenberg		KC Emergency Management	Kimberly Whitehead	
DHS	Jon Richeson		The Seattle Guys	Michael Sperrazza	
DHS	Allen Chung		Wash DOT	Kayla Grayson	
HSD/ADS	Brent Butler		King County Metro	Marcus Deyerin	
HSD/ADS	Cathy Knight		NOAA/NWS	Jeff Michuslki	
UrbanRenGroup	Shawn Wood	X	Seattle Colleges	Michelle Valint	X
Zillow Group	Siri McClean		UW Medical	Danica Little	
UW M	Randy Coggan		UW Medical	Rory McKenna	
UW Edu	Hans Scholl	X	Consultants Seattle	Unknown	
Northeastern U	Anna-Maria Jacobson		National Weather Service	Justin Pullin	
Seattle Animal Shelter	Jocelyn Bouchald	X	Seattle Animal Shelter	Caryn Cantu	X
NetZero	Andy Peck	X	Disney	David Bell	X
King County	Dan Cromwell	X	Boeing	Chris Bruner	X

**Disaster Management Committee
February 25th, 2021
Meeting Summary**

UNK	Jim Durand	X	UNK	Kthraikill	X
UNK	Cameron Taylor	X	UNK	Nate Matthews- Trigg	
UNK	Annie Searle	X	UNK	Osman Huseny	
UNK	Barry Morgan	X	UNK	Mary Rabourn	
UNK	Nicole Johnson	X			

2021 Seattle All-Hazards Mitigation Plan Update

Disaster Management Committee Plan Review & Approval

February 25, 2021



DMC REVIEW AND APPROVAL PROCESS

1. Briefing on Draft HMP at Dec 17 DMC Meeting
2. Draft HMP Plan emailed to DMC members on Feb 11
3. Discussion and vote at Feb 25 DMC Meeting



PLANNING PROCESS



WHAT IS THE ALL-HAZARDS MITIGATION PLAN (HMP)

- Comprehensive document
- Detailed information about the types of hazards we face (SHIVA)
- Actions we can take before disaster strikes
- Approved by Federal Emergency Management Agency
- Keeps Seattle eligible for FEMA mitigation grants



MITIGATION STRATEGY FRAMEWORK

Goals (6 goals)

Long-term outcome achieved through mitigation planning and implementation

Objectives (18 objectives)

Help to define, group, organize actions. Objectives are broader than specific actions and connect goals with actual mitigation actions.

Actions (47 actions)

Specific action taken to reduce risks from hazards and their impacts.

GOALS

1. Protect life and safety and promote community resiliency.
2. Safeguard critical infrastructure and ensure continuity of service.
3. **Protect public and private property.**
4. Protect the natural environment and cultural and historic resources. ***NEW IN 2015***
5. Promote a resilient economy. ***CHANGED 2020***
6. Promote a collaborative and integrated mitigation program. ***NEW IN 2015***



WHAT'S NEW FOR THIS UPDATE?

- Impacts of Covid-19 on process, staff availability, public engagement
- More departments
- Listing of major citywide plans, codes and funding levies
- Evolving information on community-led investments
- Adjust criteria to reflect values – RSJI, collaboration, multiple benefits
- FEMA influences - integrated planning, BRIC funding larger projects
- Meet EMAP requirements – Seattle seeking recertification



47 MITIGATION ACTIONS

Infrastructure/Capital Projects – 19 actions

Plans and Regulations - 9 actions

Assessments and Studies – 8 actions

Non-Structural Mitigation Measures – 5 actions

Natural Systems Protection – 4 actions

Education and Awareness – 2 actions

MITGATION WORK GROUP MEMBERS

ARTS	Flossie Pennington	OH	Dan Foley	SFD	Andy Collins
CBO	Jennifer Devore Kara Main Hester	OPCD	Patrice Carroll David Goldberg	SPL	Dennis Reddinger
DON	Sarah Sodt	OSE	TBD	SPR	Jon Jainga Scott Stevens
FAS	Elenka Jarolimek Julie Matsumoto	PH- SKC	Addison Houston	SPR/ SPU	Cynthia McCoy
HSD	Jill Watson	SC	Jae Lee	SPU	Michael Godfried
ITD	Lawrence Eichhorn Mary Wylie	SCL	Jana Elliot Brittany Barnwell	PoS	Kati Davich
OED	Jessica Sidhu	SDCI	Micah Chappell	SHA	Jared Cummer
OEM	Erika Lund TJ McDonald Laurel Nelson Lucia Schmit	SDOT	Patti Quirk	SPS	Benjamin Coulter

New for 2021 HMP



TYPES OF HAZARDS

1. **Climate Change** rising temps, sea level rise, less snowpack and stream flow
2. **Geologic Hazards** earthquake, landslides, volcanic, tsunamis, seiches
3. **Biologic Hazards** disease/ pandemic, bioterrorism
4. **Intentional Hazards** social unrest, attacks, cyber attack
5. **Infrastructure Hazards** transportation incidents, fire, hazmat incidents, infrastructure/ structural failure, power outages
6. **Weather Hazards** snow and ice, excessive heat events, water shortages, windstorms

HAZARD RANKING CHANGES

2013

1. Earthquakes
2. Snow & Ice
3. Infrastructure Failures
4. Windstorms
5. Power Outages
6. Terrorism
7. Disease
8. Flooding
9. Excessive Heat
10. Fires
11. Tsunami & Seiches
12. Landslides
13. Transportation Incidents
14. Water Shortages
15. Social Unrest
16. HazMat Incident
17. Volcano Hazards
18. Active Shooter Incidents

2018-19

1. Earthquakes
2. Snow & Ice
3. Windstorms
4. Power Outages
5. Cyber-Attack
6. Landslides
7. Disease
8. Flooding
9. Excessive Heat
10. Tsunami & Seiches
11. Infrastructure and Structural Failures
12. Fires
13. Transportation Incidents
14. Water Shortages
15. Social Unrest
16. Attacks
17. HazMat Incidents
18. Volcano Hazards



WHAT HAVE WE DONE?

Studies and Assessments

- Unreinforced masonry (URM) building inventory, assessment, policies
- Seismic assessment of community centers and pools
- Food security planning

Infrastructure/ Capital Projects

- Seismic upgrades to key City facilities
- Partnership with Community Roots Housing on seismic retrofit of affordable housing building
- Design of seismic retrofit for SCL operations center
- Separation of rail and arterial road for S. Lander St.

Non-Structural

- Emergency generators in key City facilities
- Upgraded technology and procedures to reduce vulnerability to cyber attacks

Natural Systems Protection

- Improved Thornton Creek confluence

WHAT DO WE PLAN TO DO IN THE FUTURE?

Some of the 47 mitigation projects in the updated HMP:

- Seismic retrofits of bridges and dams
- Seismic retrofit of three Carnegie branch libraries
- Integrate hazard mitigation policies into the next Comprehensive Plan update
- Design multi-purpose infrastructure to protect South Park from sea level rise
- Replace the seawall on N Northgate Way
- Seismic upgrades for the Riverton and Eastside reservoirs

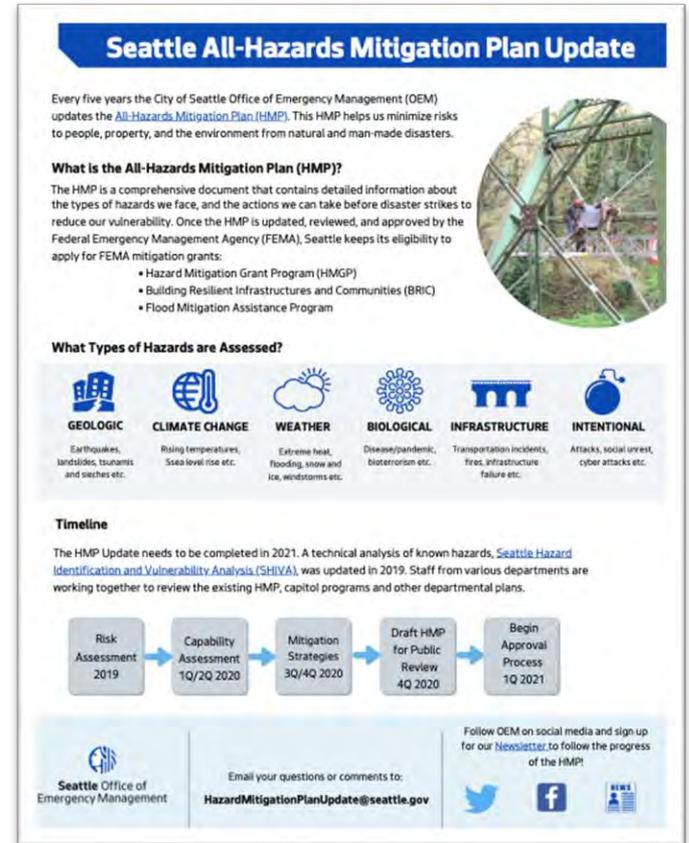
RACIAL EQUITY & MITIGATION

- OEM 1 – Expand partnerships for community-led mitigation projects
 - Community survey on priorities & partners
- OEM 2 – Undertake an analysis to better integrate racial equity into hazard mitigation program
 - Mapping/ analysis of vulnerable populations & hazard impacts
 - More info on who benefits from different types of mitigation actions
 - Outreach strategies
 - Project prioritization criteria

OUTREACH AND ENGAGEMENT

Strategies

- Developed an Outreach Plan
- OEM newsletter (Oct, Nov and Jan)
- Short, Focused Community Survey (Community Safety Ambassadors)
- Accessible materials (Handout, Video)
- 2-week comment period in January
- Input from Key Stakeholders (SWG, DMC, EEB)



Seattle All-Hazards Mitigation Plan Update

Every five years the City of Seattle Office of Emergency Management (OEM) updates the [All-Hazards Mitigation Plan \(HMP\)](#). This HMP helps us minimize risks to people, property, and the environment from natural and man-made disasters.

What is the All-Hazards Mitigation Plan (HMP)?

The HMP is a comprehensive document that contains detailed information about the types of hazards we face, and the actions we can take before disaster strikes to reduce our vulnerability. Once the HMP is updated, reviewed, and approved by the Federal Emergency Management Agency (FEMA), Seattle keeps its eligibility to apply for FEMA mitigation grants:

- Hazard Mitigation Grant Program (HMGP)
- Building Resilient Infrastructures and Communities (BRIC)
- Flood Mitigation Assistance Program

What Types of Hazards are Assessed?

GEOLOGIC	CLIMATE CHANGE	WEATHER	BIOLOGICAL	INFRASTRUCTURE	INTENTIONAL
Earthquakes, landslides, tsunamis and seiches etc.	Rising temperatures, Sea level rise etc.	Extreme heat, flooding, snow and ice, windstorms etc.	Disease/pandemic, bioterrorism etc.	Transportation incidents, fires, infrastructure failure etc.	Attacks, social unrest, cyber attacks etc.

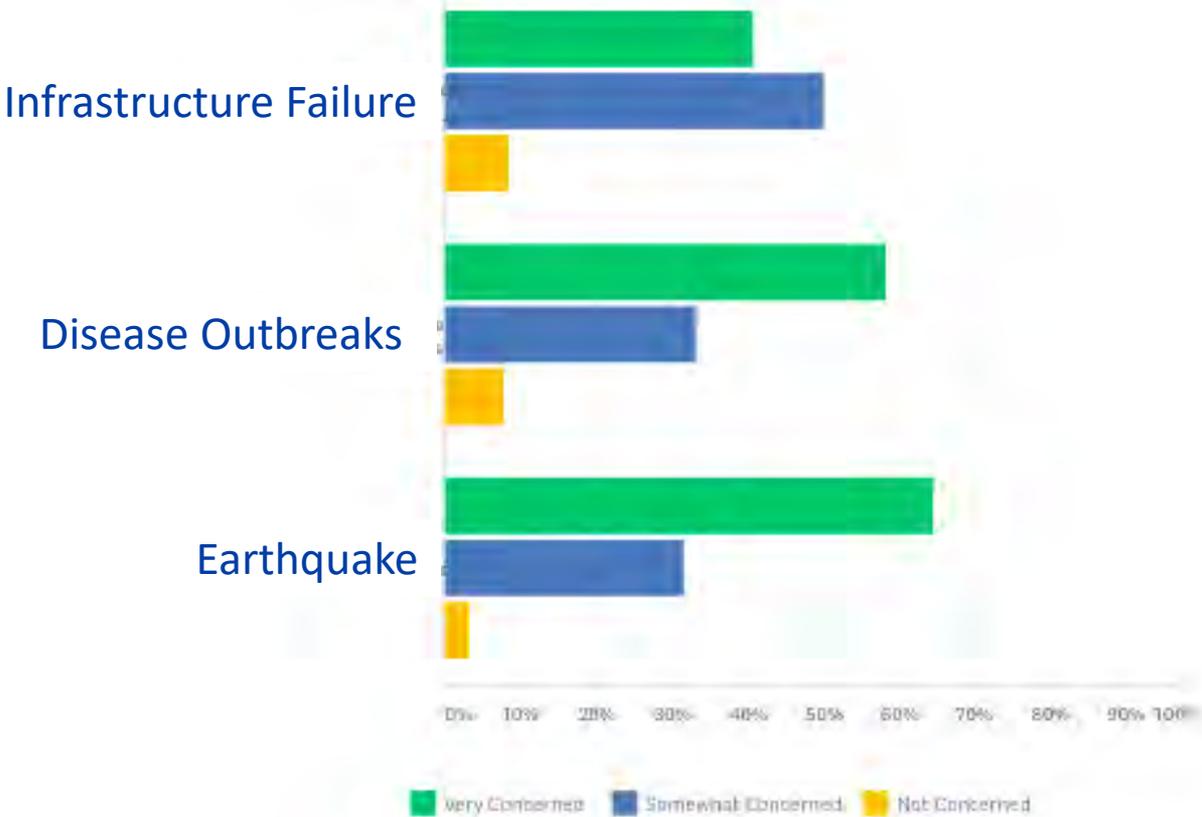
Timeline

The HMP Update needs to be completed in 2021. A technical analysis of known hazards, [Seattle Hazard Identification and Vulnerability Analysis \(SHIVA\)](#), was updated in 2019. Staff from various departments are working together to review the existing HMP, capitol programs and other departmental plans.

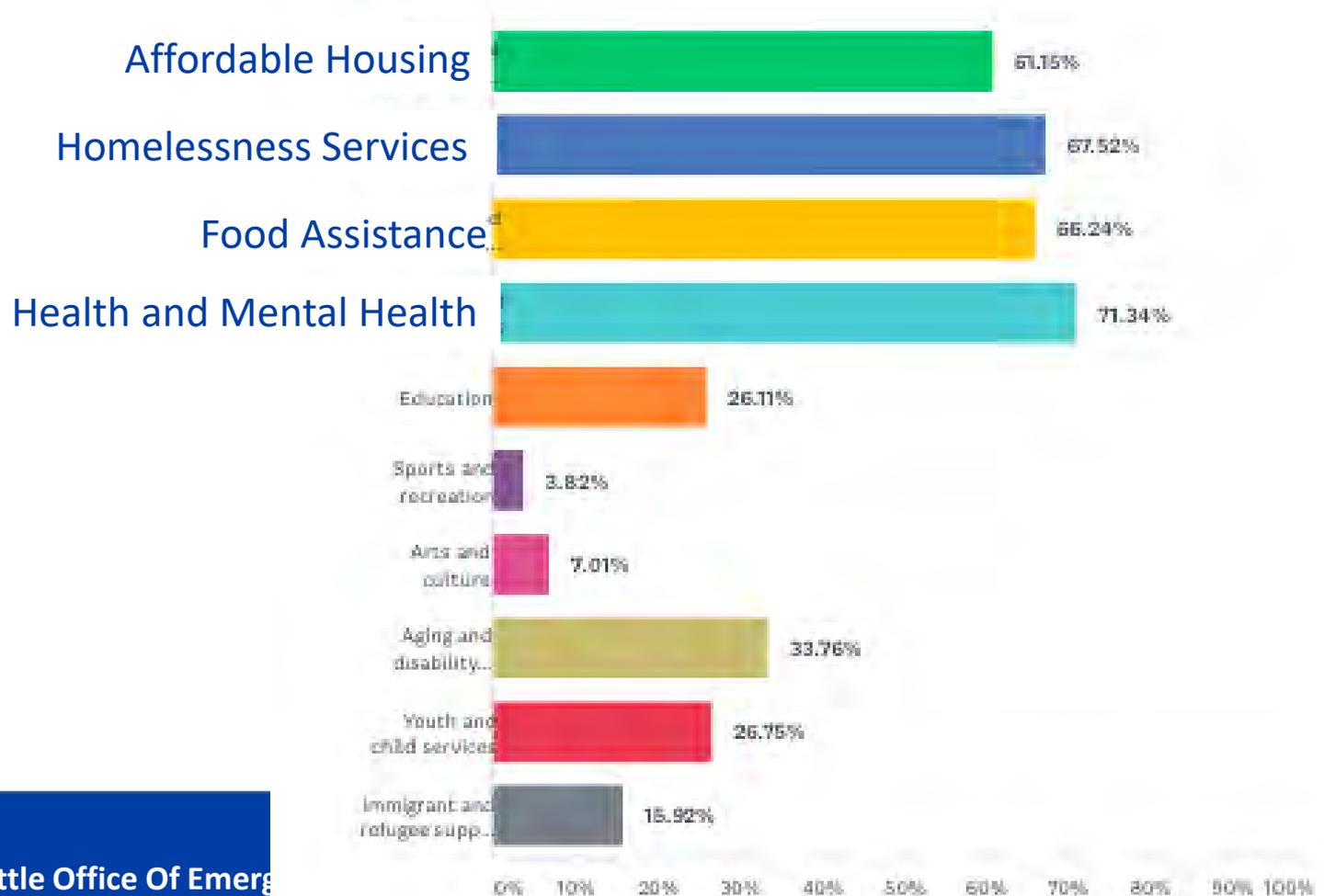
Risk Assessment 2019 → Capability Assessment 1Q/2Q 2020 → Mitigation Strategies 3Q/4Q 2020 → Draft HMP for Public Review 4Q 2020 → Begin Approval Process 1Q 2021

Seattle Office of Emergency Management | Email your questions or comments to: HazardMitigationPlanUpdate@seattle.gov | Follow OEM on social media and sign up for our [Newsletter](#) to follow the progress of the HMP!

How concerned are you about the following hazards?



What types of community services are most important to protect through mitigation projects?



Questions & Voting

Changes from the previous Draft

- Edits and corrections
- Add content re: Fire Code

Additional Changes Needed?

Vote to Approve



QUESTIONS?

**THANK YOU
FOR HELPING US
BUILD A MORE RESILIENT SEATTLE**

CITY OF SEATTLE
EMERGENCY EXECUTIVE BOARD

The Mayor's Emergency Executive Board is composed of the Mayor's Senior Staff and Key Departments or Agency Heads that assemble to address Policy related issues as part of emergencies and disasters.

April 9, 2021
11:00AM to 12:00PM
Microsoft teams meeting

Welcome and Introductions

Hazard Mitigation Plan - Review and Vote

The Hazard Mitigation Plan update includes the most current Seattle's Hazard Impact and Vulnerability Assessment (SHIVA) along with all mitigation actions that various city departments have accomplished over the last 5-years. We are asking for EEB to approve this plan so it can move onto Council approval, then on to State and FEMA approval ensuring Seattle continues to be eligible for federal disaster response reimbursement.

February Snow Event After Action Review (AAR) - Review and Vote

The Emergency Operations Center activated virtually February 13 - 15 to support operational objectives resulting in snow and cold temperatures. As with all AARs the DMC has reviewed and approved this prior to bringing it to the EEB for approval.

Updated Training and Exercise Plan - Review and Vote

The 2019 published and approved Training & Exercise Plan has been updated. This Plan outlines our Training & Exercise efforts and intent for 2021 into 2022 and focuses on preparation for the 2022 Cascadia Earthquake Exercise intended to engage cities, counties, regions, State and Federal level partners. The DMC has reviewed and accepted this update.

Updated Military Support Operations Annex - Review and Vote

The 2016 published and approved Military Support Operations Annex has been updated. This Plan outlines how the City will access and leverage state and federal military resources during a catastrophic disaster. The DMC has reviewed and accepted this update.

2021-2022 Citywide Emergency Management Program Strategic Plan - Review and Vote

The Strategic Plan has been updated the last seven years. This update was done in consideration of impacts from the 2020 COVID-19 response. As in years past the Strategic Work Group (SWG), key partners and OEM convened to review the current plan, define projects and objectives, and identified adjustments and reprioritization for 2021 and beyond. The Strategic Plan continues to focus specifically on citywide priority projects; working in tandem the Emergency Support Function document lays out

specific work to be accomplished by departmental emergency management personnel. The DMC has reviewed and accepted this update.

Earthquake Incident Annex Discussion & Prep for May 4 Executive Leadership Seminar

This annex is part of the City of Seattle Comprehensive Emergency Management Plan (CEMP). It aligns with the processes and structures described in the CEMP, while providing additional detail on how the City would coordinate its response to a severe earthquake and associated hazards detailed in the Seattle Hazard Identification and Vulnerability Analysis (SHIVA) including aftershocks, tsunami, seiche, landslides, and liquefaction. An overview of new key strategies will be presented, including leader's intent and delegation of authority/de-centralized operations.

CITY OF SEATTLE
EMERGENCY EXECUTIVE BOARD

April 9, 2021
11:00AM to 12:00PM
Microsoft Teams Meeting

Welcome and Introductions

Mayor Durkan welcomed everyone. She toured the new light rail station in North Seattle and will be at the COVID vaccine site at Centra De La Raza later today. So proud of the work we have done in this 18-month year of 2020! Seattle will do 30,000 vaccines this week; 55% of the BIPOC population in Seattle has been vaccinated to date. So proud to see hope on the horizon.

Curry welcomed and thanked everyone for the great work they contribute to the overall Emergency Management work being done. We have five (5) plans to review and approve today, as well as review Earthquake Incident Annex in preparation of upcoming May Homeland Security Executive Exercise. She asked if there were any questions?

Hazard Mitigation Plan

The Hazard Mitigation Plan update includes the most current Seattle's Hazard Impact and Vulnerability Assessment (SHIVA) along with all mitigation actions that various city departments have accomplished over the last 5-years. We are asking for EEB to approve this plan so it can move onto Council approval, then on to State and FEMA approval ensuring Seattle continues to be eligible for federal disaster response reimbursement.

Curry asked if there were any questions or discussion points regarding the Hazard Mitigation Plan? There were none. Jesus Aguirre made the motion to approve the Hazard Mitigation Plan; Patty Hayes seconded the motion. Cameras were turned on and EEB members were asked for show of hand for approval, and to post any dissent put in Chat. The Hazard Mitigation Plan passed unanimously.

February Snow Event After Action Review (AAR)

The Emergency Operations Center activated virtually February 13 - 15 to support operational objectives resulting in snow and cold temperatures. As with all AARs the DMC has reviewed and approved this prior to bringing it to the EEB for approval.

Curry asked if there were any questions or discussion points regarding the February Snow Event AAR? There were none. Pamela Banks made the motion to approve the February Snow Event AAR; Bobby Humes seconded the motion. Cameras were turned on and EEB members were asked for show of hand for approval, and to post any dissent put in Chat. The February Snow Event AAR passed unanimously.

Updated Training and Exercise Plan

The 2019 published and approved Training & Exercise Plan has been updated. This Plan outlines our Training & Exercise efforts and intent for 2021 into 2022 and focuses on preparation for the 2022 Cascadia Earthquake Exercise intended to engage cities, counties, regions, State and Federal level partners. The DMC has reviewed and accepted this update.

Curry asked if there were any questions or discussion points regarding Training and Exercise Plan? There were none. Chief Scoggins made the motion to approve the Training and Exercise Plan; Lilly Wilson-Codega seconded the motion. Cameras were turned on and EEB members were asked for show of hand for approval, and to post any dissention put in Chat. The Training and Exercise Plan passed unanimously.

Updated Military Support Operations Annex

The 2016 published and approved Military Support Operations Annex has been updated. This Plan outlines how the City will access and leverage state and federal military resources during a catastrophic disaster. The DMC has reviewed and accepted this update.

Curry asked if there were any questions or discussion points regarding the Military Support Operations Annex? There were none. Bobby Humes made the motion to approve the Military Support Operations Annex; Chief Scoggins seconded the motion. Cameras were turned on and EEB members were asked for show of hand for approval, and to post any dissention put in Chat. The Military Support Operations Annex passed unanimously.

2021-2022 Citywide Emergency Management Program Strategic Plan

The Strategic Plan has been updated the last seven years. This update was done in consideration of impacts from the 2020 COVID-19 response. As in years past the Strategic Work Group (SWG), key partners and OEM convened to review the current plan, define projects and objectives, and identified adjustments and reprioritization for 2021 and beyond. The Strategic Plan continues to focus specifically on citywide priority projects; working in tandem the Emergency Support Function document lays out specific work to be accomplished by departmental emergency management personnel. The DMC has reviewed and accepted this update.

Curry asked if there were any questions or discussion points regarding the 2021-2022 Citywide Emergency Management Program Strategic Plan? Bobby Humes asked what the logic in having a one-year plan was? Curry answered that this plan is normally updated every two-years, because of COVID we looked at this plan in the scope of COVID response and how we re-prioritize on citywide emergency management priorities. Lilly Wilson-Codega made the motion to approve the 2021-2022 Citywide Emergency Management Program Strategic Plan; Patty Hayes seconded the motion. Cameras were turned on and EEB members were asked for show of hand for approval, and to post any dissention put in Chat. The 2021-2022 Citywide Emergency Management Program Strategic Plan passed unanimously.

Earthquake Incident Annex Discussion & Prep for May 4 Homeland Security Executive Exercise

This annex is part of the City of Seattle Comprehensive Emergency Management Plan (CEMP). It aligns with the processes and structures described in the CEMP, while providing additional detail on how the City would coordinate its response to a severe earthquake and associated hazards detailed in the Seattle Hazard Identification and Vulnerability Analysis (SHIVA) including aftershocks, tsunami, seiche, landslides, and liquefaction. An overview of new key strategies will be presented, including leader's intent and delegation of authority/de-centralized operations. In the scope of how this document will help queue up the May Homeland Security Executive Exercise we will look at the cascading events that most likely will take place after a significant earthquake. Including an interruption of utility services, roadway arterial and bridge impacts, and lost animals, including Woodlawn Park Zoo. By the way Woodlawn Park Zoo does have emergency plans, that address the chance of some animals not being secure. Animal sheltering is also a large component of sheltering of people that have pets. Isolated neighborhoods, also known as islanding. This is a multi-faceted issue that impacts assistance from neighboring jurisdictions, ability to deliver necessary supplies, staff's ability to report to work and/or respond to emergencies. The concept of Resilient Islands is the strategic placement of supplies that would be needed in areas of isolation. Discussion of Leaders Intent will also be part of the exercise. This is an effort to have your staff to have a clear understanding on their role in response immediately after an event, without the ability to communicate with their superiors. The Federal government has a Community Life Lines concept that prioritize response to bring back critical services such as communication, transportation, technology, and water.

Question/Answers:

- Sam asked in preparation of the Executive Exercise for the transportation component to have better coordination with neighboring transportation partners. He has asked his staff to reach out to KC Metro to ensure their plans are aligned. Will any representatives from KC be attending? Curry answered that the KC OEM Director will be present, it might be good to plan a stand-alone exercise with SDOT and their counterparts to go through similar exercise.
- Chief Scoggins asked if other cities are using drones immediately after disasters to access damage? He mentioned Washington State Patrol using drones after train derailment allowing information to be sent to National Transportation Safety Board before their investigators arrived on scene to assist in accessing the accident. Curry said she will find out what other cities are doing nationally and report back to EEB.
- Mariko is concerned about islanding, aside from West Seattle is there a list of locations that could be impacted and community demographic that might be affected? Curry answered One Concern has done some work in GIS mapping on this issue, will share out that information.

ATTENDEES

Department	Contact	Present	Department	Contact	Present
Mayor	Jenny Durkan	x	PHSKC	Patty Hayes	X
Sr. Deputy Mayor	Mike Fong	X	Seattle Center	Deborah Daoust for Robert Nellams	X
Deputy Mayor	Casey Sixkiller		Office of Housing	Emily Alvarado	X
Deputy Mayor	Tiffany Washington		OSE	Jessica Finn Coven	
Public Safety Advisor	Julie Kline	X	Library	Tom Fay	X
Budget Office	Ben Noble		SCL	Debra Smith	X
Sr. Operations Manager	Maritza Rivera	X	SDCI	Nathan Torgelson	
Mayor's Legal Council	Michelle Chen	X	OIR	Lily Wilson-Codega	X
Communications Director	Kamaria Hightower		SDOT	Sam Zimbabwe	X
Policy Director	Adrienne Thompson	X	SDHR	Bobby Hume	X
FAS	Calvin Goings	X	SFD	Harrold Scoggins	X
City Attorney	Pete Holmes	X	OPCD	Ubox Gardheere for Rico Quirindongo	X
DEEL	Dwane Chappelle		SHA	Andrew Lofton	
DON	Sarah Morningstar for Andres Mantilla	X	Seattle IT	Saad Bashir	
HSD	Helen Howell	X	SPR	Jesús Aguirre	X
Civil Rights	Mariko Lockhart	X	SPU	Keri Burchard-Juarez for Mami Hara	X
OED	Pamela Banks	X	SPD	Adrian Diaz	
OEM	Curry Mayer	X	OIRA	Cuc Vu	
OEM	Laurel Nelson	X	HSD	Joseph Kasperski	X
Library	Rick Sheridan	X			

