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SCEMD

State Hazard Mitigation Plan Partners Workshop

Hosted by SC Emergency Management Division

October 19, 2021

SHMP Partners Workshop Agenda

SCEMD

10:00 – 10:20 Opening Remarks and Mitigation Overview

10:20 – 10:45 State Hazard Mitigation Plan Update Overview

10:50 – 11:00 Break

11:00 – 11:25 Mitigation Needs and Priorities Discussion

11:25 – 11:50 Agency/Department Mitigation Actions

11:50 – 11:55 Funding Sources

11:55 – 12:00 Next Steps

12:00 Follow-up discussions and box lunch provided

Opening Remarks

SCEMD

Kim Stenson,
SCEMD Director

Today's Discussion

SCEMD

- Set the Framework: Explain mitigation and the SHMP and put the team in a mitigation mindset
- Solicit Input: As a team, discuss the state's mitigation goals
- The Ask: Explain and discuss agency-specific mitigation actions along with the process and format for submitting actions and updates for inclusion in the SHMP

SCEMD

Hazard Mitigation Overview

Candice Shealey

State Hazard Mitigation Officer

What is Hazard Mitigation?

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Sustained action taken to reduce or
eliminate long-term risk
to people and property from hazards and
their effects.

Why Mitigate?

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- Effects During a Disaster
  - Saves lives and property
  - Reduces disruptions to operations and services
- Post-disaster Effects
  - Reduces overall recovery time (return to normal)
  - Reduces financial recovery time and needs
  - Reduces need to re-build damaged infrastructure

It Pays to Mitigate

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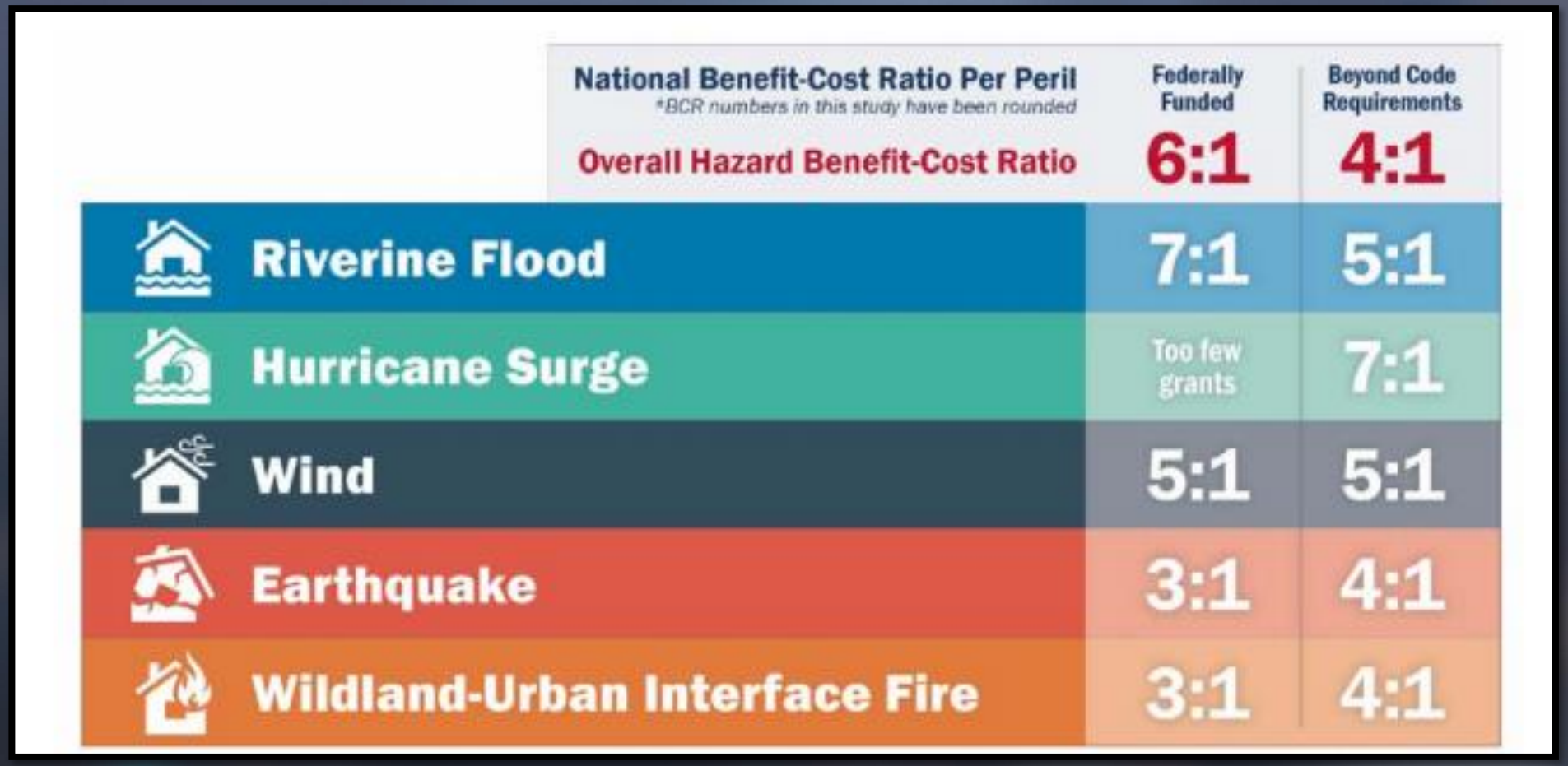

The Mitigation Process

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Mitigation Project Examples

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Types of grant-eligible projects under federal Hazard Mitigation Assistance (HMA) include:

- Property acquisition
- Structure elevation
- Localized flood reduction
- Infrastructure retrofit
- Back-up power to critical facilities
- Wildfire mitigation
- Safe room construction
- Education/outreach

Mitigation Project Examples

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Quick Brainstorm:

What are some of your organization's facilities and infrastructure components that might benefit from hazard mitigation measures?

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The State Hazard Mitigation Plan

Lindsey McCoy, Mitigation Manager

State Hazard Mitigation Plan

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- The SHMP analyzes risk and vulnerability to hazards and establishes the state's strategy for implementing hazard mitigation.
- Is required for the state to receive HMA funds
- Expires five years from its approval date. The current plan will expire October 1, 2023.
- SHMP Update effort is in progress, guided by an SHMP Steering Committee.

SHMP Objectives

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- Coordinate and collaborate to develop and execute sustainable and effective hazard mitigation goals, objectives, strategies, and actions.
- Coordinate and support agency efforts in obtaining and administering federal and other mitigation grants.
- Ensure effective and consistent implementation of mitigation plans following their completion.

State Mitigation Planning Process

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- Steering Committee Meetings and Partner Workshops
- Hazard identification and Risk Assessment (HIRA)
- State review
  - Revisions
- FEMA review
  - Feedback
  - State revisions
  - Approval
- State adoption process

Pursuing Enhanced Plan Status

SCEMD

"…the state 'must show that it has developed a comprehensive mitigation program and is capable of managing increased funding for its mitigation goals."

- If achieved, the state can receive 20% of post-disaster funding – increase of 5% from standard status.
- Includes evaluation of the SHMP and the state hazard mitigation program and its performance over previous five years.

SHMP Update Timeline

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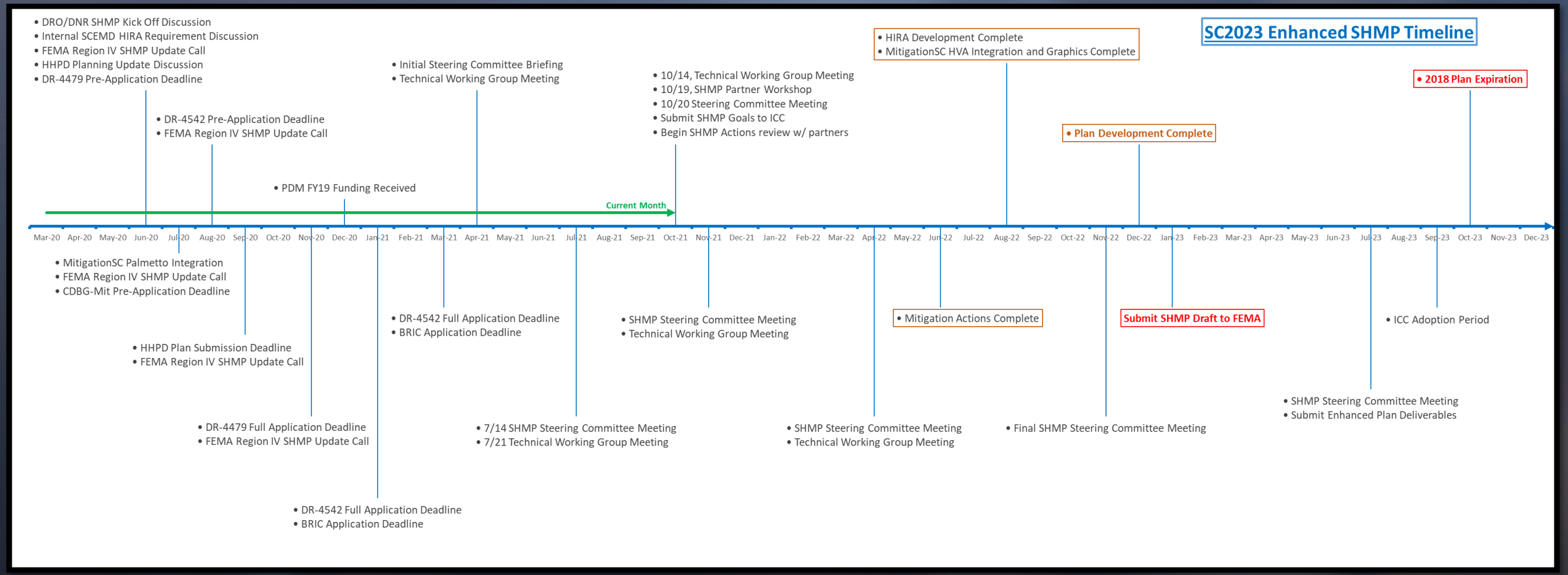

Updating HIRA

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- Updating hazard identification and risk analysis (HIRA) (all hazards) as basis for SHMP.
  - Likelihood/return
  - Vulnerability, including social vulnerability
  - Consequences/impacts
- Supports other SCEMD and state planning efforts, including EMAP accreditation.
- Integrate data into MitigationSC (PalmettoEOC-based).

Multi-Hazard HIRA

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- Civil disturbance
- Coastal hazards including erosion and sea-level rise
- Cyber failure or attack
- Drought
- Extreme heat
- Earthquake
- Flooding
- Hail
- Hazardous materials release
- Hostile action/active shooter
- Hurricanes and tropical storms
- Landslides, land subsidence, and sinkholes
- Pandemic/infectious disease
- Radiological release
- Severe thunderstorms and lightning
- Severe winter weather
- Terrorism
- Tornadoes
- Tsunami
- Wildfire and interface fire

Planning Partners

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Development of a comprehensive SHMP requires **collaboration of all state entities** including executive departments and their subsidiary agencies as well as state academic institutions.

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SHMP Mitigation Goals

Updated SHMP Goals

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- Are approved by the state Hazard Mitigation Interagency Coordinating Council (ICC)
- Establish the framework for developing specific mitigation actions

Goal Revisions

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Current Goals, 2018 SHMP	Proposed Revised Goals for 2023 SHMP	Notes
Goal 1: Implement policies and projects designed to reduce or eliminate the impacts of hazards on people and property.	Goal 1: Implement policies and projects designed to reduce or eliminate the impacts of hazards on people and property.	No change.
Goal 2: Obtain resources necessary to reduce the impact of hazards on people and property.	Goal 2: Obtain resources necessary to reduce the impact of hazards on people and property.	No change.
Goal 3: Enhance training, education, and outreach efforts focusing on the effects of hazards, importance of mitigation, and ways to increase resilience.	Goal 3: Enhance training, education, and outreach efforts focusing on the effects of hazards, importance of mitigation, and ways to increase resilience.	No change.
Goal 4: Collect and utilize data, including conducting necessary studies and analyses, to improve policymaking and identify appropriate mitigation projects.	Goal 4: Collect and utilize data, including studies and analyses, to improve policymaking to support hazard resilience and identify appropriate mitigation projects.	Minor revisions to explicitly incorporate resilience.

Goal Revisions continued

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Current Goals, 2018 SHMP	Proposed Revised Goals for 2023 SHMP	Notes
Goal 5: Improve interagency coordination and planning to reduce the impact of hazards on people and property.	Goal 5: Improve interagency coordination and planning to reduce the impact of hazards on people and property.	No change.
Goal 6: Enhance compliance capabilities in order to reduce the impacts of hazards on people and property.	Goal 6: Enhance policies and compliance to reduce risk and damage, incorporating current trends and projections regarding population growth and climate change.	Revises to encourage forward-thinking actions and consideration of factors that may affect future resilience.
Goal 7: Enhance and encourage the use of natural resource protection measures as a means to reduce the impacts of hazards on people and property.	Goal 7: Maximize use of natural resource protection measures and nature-based solutions as cost-effective means to reduce the impacts of hazards on people, property, and infrastructure.	Revises wording to be more active and include infrastructure.
	Goal 8: Pursue and prioritize mitigation actions that include and benefit multiple stakeholders and geographic areas to achieve broad, comprehensive results and leverage available resources.	New goal to address regional and broad-based projects.

Mitigation Goals Discussion

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- What is your agency already doing that supports or is related to these goals?
- Consider which of these goals might support or inform mitigation actions in your agency.

Break

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Hazard Mitigation and Your Organization

Group Discussion

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How can hazard mitigation improve your organization's resilience to disasters and its ability to fulfill its mission?

Mitigation definition:

Sustained action taken to reduce or eliminate long-term risk to people and property from hazards and their effects.

Opportunities

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- What would you consider priorities for hazard mitigation during the next five years?
- Which of the revised SHMP goals are most relevant to hazard mitigation opportunities in your agency/organization's areas of responsibility?

SHMP Mitigation Actions

Mitigation Actions Update

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For the SHMP update:

- Remove old actions (completed or no longer relevant)
- Update in-progress actions
- Add new actions

SCEMD mitigation staff will work with you to update mitigation actions.

Mitigation Actions

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- Actions align with SHMP goals.
- Actions that can help the state or your agency achieve one or more mitigation goals.
- Actions should be something that can transition or feed into one or more mitigation projects.

For Example, from 2018 SHMP

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- State Department of Education: Retrofit shelter facilities for backup power and communication systems
- State Department of Natural Resources: Require drought mitigation plans for industry and municipal public works departments
- Other examples want to note? (found in goals sections of 2018 SHMP at https://scemd.org/em-professionals/plans/hazard-mitigation-plan/)

For Each Mitigation Action

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- Mitigation action
- Hazard(s) addressed
- Category
- Associated goal
- Estimated cost and potential funding source(s)
- Lead agency/department/organization
- Implementation schedule and status as of SHMP update
- Milestones accomplished and challenges to implementation

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Mitigation Funding Sources

Federal Grant Programs

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- Hazard Mitigation Grant Program (HMGP)
- Building Resilient Infrastructure in Communities (BRIC)
  - Formerly Pre-Disaster Mitigation Grant Program (PDM)
- Flood Mitigation Assistance Program (FMA)
- Community Development Block Grant (CDBG-Mit)

Grant Programs

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	Flood Mitigation Assistance (FMA)	Community Development Block Grant – Mitigation (CDBG-Mit)
Availability	Annually	Upon Congressional Appropriation
Amount Available	Funded by National Flood Insurance Fund. Amount announced annually.	Funded by congressional appropriation. HUD published the Federal Register notice providing for the use of the $157M CDBG-MIT funds on August 30, 2019.
Eligible Entities	Governmental Entities	Governmental Entities
Cost share	Varies	No Cost Share Requirement. Funds may be used to meet cost share requirements for other federal grants
Special Notes	To be eligible entities must be participants in the national flood insurance program. Managed by SCDNR.	The HUD-approved Mitigation Action Plan specifies program area allocation amounts, coverage areas, and allowable activities. At least 50% of the entire grant will support the LMI population. Managed by SCOR.

Grant Programs

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	Hazard Mitigation Grant Program (HMGP)	Building Resilient Infrastructure and Communities (BRIC)
Availability	After a disaster	Annually
Amount Available	15% of total disaster costs	Funded by 6% of previous years total nationwide disaster spending, with amount announced annually
Eligible Entities	Governmental entities and certain non-profits	Governmental entities
Cost share	75/25	75/25
Special Notes	Projects do not need to mitigate the hazard associated with the disaster to be eligible	Emphasis on increasing resiliency of infrastructure and community lifelines, nature-based solutions, and multi-jurisdictional projects

Coordination

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- Monthly coordination calls with SCEMD, SCDNR, and SCOR.
- SCDNR is responsible for the Flood Mitigation Assistance (FMA) program.
- SCOR is responsible for the CDBG-Mitigation grant program and is developing a Statewide Resilience Plan.
- This coordination group plans to expand to include SCDHEC, SCDOI, and other partners.

Closing Summary

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- Mitigation is important and should be implemented before a disaster occurs, when possible.
- Breaks the prepare, respond, and recover cycle.
- Saves lives, property, and dollars in future disasters.
- Consists of planning, policy, and project implementation.
- Federal funding is available, but local, state, and private sector investment is needed.

Next Steps

SCEMD

- Review and update and/or create mitigation actions for your agency for the 2023 SHMP
- SCEMD will follow up with each agency to provide assistance
- Goal to compile mitigation actions NLT June 2022

Contact Information

SCEMD

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General Inquiries:
mitigation@emd.sc.gov

What is the State Hazard Mitigation Plan?

The State Hazard Mitigation Plan (SHMP) is a federally mandated plan per the Disaster Mitigation Act of 2000 which is required to be updated every 5 years and serves two primary purposes:

- Reduce the loss of life and property, human suffering, economic disruption, and disaster assistance costs resulting from natural disasters and
- Provide a source of pre-disaster hazard mitigation funding that will assist States and local governments (including Native American tribes) in implementing effective hazard mitigation measures that are designed to ensure the continued functionality of critical services and facilities after a natural disaster.

Having a FEMA-approved SHMP is required in order for a state to receive federal hazard mitigation funding in the form of Public Assistance Categories C-G as well as Unified Hazard Mitigation Assistance which consist of the disaster-based Hazard Mitigation Grant Program (HMGP) and the non-disaster Flood Mitigation Assistance (FMA) program and the Building Resilient Infrastructures and Communities (BRIC) program which replaces the Pre-Disaster Mitigation (PDM) program.

Further, per South Carolina State Executive Order 99-60 which was signed by Governor Jim Hodges on October 22, 1999, the SHMP supports the state's Interagency Coordinating Committee (ICC) in its mission to assist the Governor's Office and the General Assembly in identifying the hazard mitigation issues and opportunities facing the state. The SHMP helps facilitate the development of comprehensive hazard mitigation strategies, policies, and reports on hazard mitigation issues. It also guides and assists state agencies and local governments as they collaborate, develop, and execute sustainable hazard mitigation actions, and coordinate and support agency efforts in obtaining and administering mitigation grants to reduce the risks posed by all hazards to the State of South Carolina.

In short, the plan identifies and ranks South Carolina's threats from natural hazard, identifies our state-level vulnerabilities and capabilities to address these threats, outlines a mitigation strategy to increase our resilience, tells how we can potentially fund that strategy, and details how the state can support local and tribal jurisdictions' capabilities to accomplish hazard mitigation.

What is Enhanced status?

Achieving Enhances status of the State Hazard Mitigation Plan mean that a state has demonstrated that it has enhanced capabilities which build on and exceed the standard mitigation plan requirements. Achieving enhanced status grants the approved state an increased percentage of post-disaster funding under the Hazard Mitigation Grant Program (HMGP). This is an invaluable opportunity for our state to receive potentially millions of additional disaster-related dollars to help increase our resilience against future disasters.

One key area of these capabilities is demonstrating integration with other state and/or regional planning initiatives, including, at a minimum, the following sectors

- Emergency management
- Economic development
- Land use development
- Housing
- Health and social services
- Infrastructure; and
- Natural and cultural resources

How can you help?
The cooperation of all state entities is needed in three specific areas: recommending updates or additions to the state overarching mitigation goals, identifying specific mitigation actions your organization can take to help achieve these goals, and work with SCEMD to identify how the State hazard Mitigation Plan and your own organizations mission and plans can mutually support each other.

For simplicity we will address these three areas in separate correspondences and progressively over the course of the next 12 months. For now, however, we would like to address the first and easiest goal, reviewing the state's overarching mitigation goals, as a means to establish contact and rapport with all of our assisting partners. This will also help clarify the concept of what we will be asking you for so you can direct this collaborative task to the appropriate section or individual with your organization. This objective and how you can contribute is further explained the accompanying document, *Mitigation Strategy Goals*.

We at SCEMD cannot thank you enough for your participation and we look forward to a robust and productive collaborative process going forward.

Roberson, Addie

Subject: State Planning Coordination Quarterly Meeting
Location: https://scemd.webex.com/scemd/j.php?MTID=mf18a7ecde434330d6a2ca5370fba49c5

Start: Fri 2/3/2023 11:00 AM
End: Fri 2/3/2023 12:00 PM
Show Time As: Tentative

Recurrence: (none)

Meeting Status: Not yet responded

Organizer: Recovery

A virtual option for this morning's meeting.

-----Original Appointment-----
From: Recovery and Mitigation <recovery@emd.sc.gov>
Sent: Friday, February 3, 2023 9:14 AM
To: Recovery and Mitigation; McCoy, Lindsey
Subject: State Planning Coordination Quarterly Meeting
When: Friday, February 3, 2023 11:00 AM-12:00 PM America/New_York.
Where: https://scemd.webex.com/scemd/j.php?MTID=mf18a7ecde434330d6a2ca5370fba49c5

1. Agency updates
2. State Hazard Mitigation Plan status
3. State Resilience Plan status
4. SCEMD Preparedness section integration
5. Relevant mitigation grants
a. BRIC
b. CDBG-Mit
c. Revolving Loan Fund
d. Others
6. Open discussion

-~-

Recovery and Mitigation is inviting you to a scheduled Webex meeting.

Friday, February 3, 2023
11:00 AM | (UTC-05:00) Eastern Time (US & Canada) | 1 hr

Join meeting

More ways to join:

Join from the meeting link

https://scemd.webex.com/scemd/j.php?MTID=mf18a7ecde434330d6a2ca5370fba49c5

Join by meeting number

Meeting number (access code): 2634 019 7682

Meeting password: 5siJxAp9w27

Tap to join from a mobile device (attendees only)

+1-408-418-9388,,26340197682## United States Toll

Join by phone

+1-408-418-9388 United States Toll

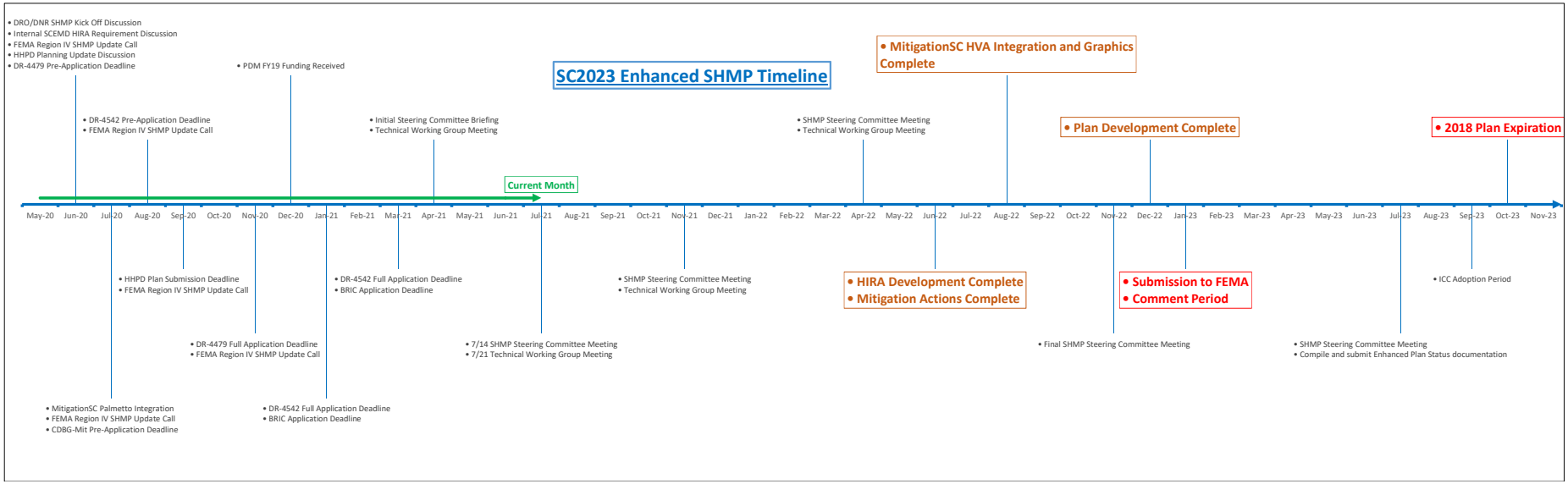
Global call-in numbers

Join from a video system or application

Dial 26340197682@scemd.webex.com

You can also dial 173.243.2.68 and enter your meeting number.

Need help? Go to https://help.webex.com


SC2023 Enhanced SHMP Timeline
• DRO/DNR SHMP Kick Off Discussion
• Internal SCEMD HIRA Requirement Discussion
• FEMA Region IV SHMP Update Call
• HHPD Planning Update Discussion
• DR-4479 Pre-Application Deadline
• DR-4542 Pre-Application Deadline
• FEMA Region IV SHMP Update Call
• PDM FY19 Funding Received
• Initial Steering Committee Briefing
• Technical Working Group Meeting
Current Month
• SHMP Steering Committee Meeting
• Technical Working Group Meeting
• MitigationSC HVA Integration and Graphics Complete
• Plan Development Complete
• 2018 Plan Expiration
May-20 Jun-20 Jul-20 Aug-20 Sep-20 Oct-20 Nov-20 Dec-20 Jan-21 Feb-21 Mar-21 Apr-21 May-21 Jun-21 Jul-21 Aug-21 Sep-21 Oct-21 Nov-21 Dec-21 Jan-22 Feb-22 Mar-22 Apr-22 May-22 Jun-22 Jul-22 Aug-22 Sep-22 Oct-22 Nov-22 Dec-22 Jan-23 Feb-23 Mar-23 Apr-23 May-23 Jun-23 Jul-23 Aug-23 Sep-23 Oct-23 Nov-23
• MitigationSC Palmetto Integration
• FEMA Region IV SHMP Update Call
• CDBG-Mit Pre-Application Deadline
• HHPD Plan Submission Deadline
• FEMA Region IV SHMP Update Call
• DR-4479 Full Application Deadline
• FEMA Region IV SHMP Update Call
• DR-4542 Full Application Deadline
• BRIC Application Deadline
• DR-4542 Full Application Deadline
• BRIC Application Deadline
• 7/14 SHMP Steering Committee Meeting
• 7/21 Technical Working Group Meeting
• SHMP Steering Committee Meeting
• Technical Working Group Meeting
• HIRA Development Complete
• Mitigation Actions Complete
• Final SHMP Steering Committee Meeting
• Submission to FEMA
• Comment Period
• SHMP Steering Committee Meeting
• Compile and submit Enhanced Plan Status documentation
• ICC Adoption Period

Roberson, Addie

From: Stenson, Kim
Sent: Monday, October 4, 2021 8:43 AM
To: 'aberry@scprt.com'; Chaffins, April; 'afloyd@uway.org'; 'aroberson@doi.sc.gov'; Jessica Artz; Lancaster, Ashlie; 'baileyki@musc.edu'; 'ben.duncan@admin.sc.gov'; Blair, Jamie; 'boylesr@dnr.sc.gov'; 'busyone@clemson.edu'; 'C055056@doc.sc.gov'; Bundy, Chuck; 'christinehall@scdot.org'; Kaufman, Charlie; 'clw@sc.edu'; 'cmunn@aging.sc.gov'; Cofield, Whitney; 'coledj@musc.edu'; 'cookdb@scdot.org'; 'coxm@dnr.sc.gov'; Shealey, Candice; 'daryle.fontenot@aecom.com'; Dawson-House, Dawn; 'dellzey@dew.sc.gov'; 'dev@clemson.edu'; Jones, Darryl; 'dlainer@scdhhs.gov'; 'donklekl@scdot.org'; 'dparrish@scprt.com'; Bentley, Emily; 'eden.hendricks@admin.sc.gov'; 'edward.simmer@dhec.sc.gov'; 'emily.farr@llr.sc.gov'; 'erowe@harvesthope.org'; 'fmiley@scprt.com'; 'gfast@ed.sc.gov'; Griffin, Sloan; 'Gwalter1@citadel.edu'; 'harley.powell@dor.sc.gov'; 'hlightsey@sccommerice.com'; 'hpage@aging.sc.gov'; 'james.casserly@dss.sc.gov'; 'jeffrey.adkins@dor.sc.gov'; Barber, Jennifer; 'jery.adger@ppp.sc.gov'; 'joe.boyes@admin.sc.gov'; Cpt. Johnny Rosado; Romlein, Jason; 'jvancleave@aging.sc.gov'; 'kevin.schwedo@scdmv.net'; 'kkibler@scprt.com'; MacDonald, Kathryn; Stenson, Kim; McCoy, Lindsey; Mack, Robin; 'marica.adams@admin.sc.gov'; 'mark.collins@scdhhs.gov'; 'mccainjm@dhec.sc.gov'; 'mdarrow@feedingthecarolinas.org'; 'michael.leach@dss.sc.gov'; 'michael.powers@dor.sc.gov'; Patterson, Mike; 'mizzellh@dnr.sc.gov'; Keel, Mark; 'msellis@mailbox.sc.edu'; 'nathan5@clemson.edu'; 'pbrown@townofedistobeach.com'; 'phleisha.lewis@scor.sc.gov'; 'polattyj@scdhhs.gov'; 'president@clemson.edu'; 'president@cofc.edu'; 'president@sc.edu'; 'prosburg@carolinasda.org'; Truesdale, Phil; 'ran.reinhard@scor.sc.gov'; Burton, Robert; 'rconnell@sled.sc.gov'; Myra Reece; 'rfarmer@doi.sc.gov'; Guerry, Ryan; McCaster, Rachel; Burress, Robert; Woods, Robert; 'roy.v.mccarty.mil@mail.mil'; 'scott.hansen@catawbaindian.net'; 'scsupted@ed.sc.gov'; 'Superintendent@ed.sc.gov'; 'sgoldsby@daodas.sc.gov'; 'sphillips@scfc.gov'; 'steinhilper@sctechsystem.edu'; 'stewarjc@dhec.sc.gov'; 'susan.lovelace@scseagrant.org'; 'tiffany.hyatt@catawbaindian.net'; 'traxlerb@dhec.sc.gov'; 'tsyfert@mailbox.sc.edu'; 'will.grimsely@scdva.org'; 'wlind@citadel.edu'; 'colton.b.bowles@usace.army.mil'; Darby, Ed; Staley, Bill; Yates, Jackie; Creamer, Randy; Plowden, Mark
Cc: Bentley, Emily; Shealey, Candice; Batson, Steven
Subject: State Hazard Mitigation Plan Workshop (19 Oct 21)

Follow Up Flag: Follow up
Flag Status: Flagged

Good morning,

We invite you to provide your agency's input to the next update of the South Carolina State Hazard Mitigation Plan (SHMP). The SHMP outlines the state's strategy to reduce the physical and financial impacts of hazards on South Carolina residents, communities, and infrastructure. Maintaining a federally approved SHMP is required for entities within the state to be eligible for hazard mitigation grants. The plan is updated every five years, and the South Carolina Emergency Management Division (SCEMD) has begun the 2023 update process. For reference, the 2018 SHMP can be found here.

To discuss the SHMP update and input needed, you or your designee are invited to a state agency SHMP workshop at 10 a.m., **Tuesday, October 19, 2021**, at the State Emergency Operations Center in West Columbia. In-person attendance is preferred, but a virtual option will be available. A box lunch will be provided.

As you know, hazard mitigation involves long-acting measures to avoid or reduce risk and damage from future hazards. As part of the SHMP update, we will ask all agencies/offices to provide input regarding the 1) state's hazard mitigation goals, 2) your agency's mitigation actions accomplished since the 2018 SHMP, and 3) potential future mitigation actions and/or priorities for your department/agency. Input from multiple levels of government and all state agencies is needed to provide comprehensive information for the SHMP.

We understand the time commitments of our partner state agencies. It may be helpful to identify a lead point of contact to provide input on behalf of your organization – or for key subject areas or mitigation-related programs handled by your organization.

Please reply to Candice Shealey, State Hazard Mitigation Officer (copied above) no later than October 13 regarding your agency's plans to participate (in person or virtual). If you have questions, contact Emily Bentley, Chief of Recovery and Mitigation, at 803-737-8774, or Candice Shealey, State Hazard Mitigation Officer, at 803-260-2794.

We appreciate your assistance and partnership in updating the SHMP.

Thanks!

Best regards,

Kim

Kim Stenson
Director
SC Emergency Management Division
803-737-8566 (desk)
803-413-4669 (cell)
kstenson@emd.sc.gov

SCEMD State Hazard Mitigation Plan Update Work Plan

Planning Objective: To develop a FEMA approved Enhanced State Hazard Mitigation Plan via coordination with federal, state, local agencies by utilizing relevant and available federal grant funding opportunities. The intended date of completion is January 2023.

Planning Scope of Work:

To be eligible for funding under the FEMA Hazard Mitigation Assistance (HMA) program, all state requires a FEMA approved Hazard Mitigation Plan. This allows states to receive 15% of all post-disaster funding following a Major Presidential Disaster Declaration in the form of the Hazard Mitigation Grant Program (HMGP). South Carolina currently has a FEMA approved Hazard Mitigation Plan, approved and adopted on October 1, 2018. This plan expires every five years, necessitating an update to be completed, approved, and adopted no later than October 1, 2023.

In this current planning cycle, the South Carolina Emergency Management Division (SCEMD) seeks to achieve Enhanced Plan Status. To be designated as an Enhanced Plan Status state, the state "must show that it has developed a comprehensive mitigation program and is capable of managing increased funding for its mitigation goals." This includes a thorough evaluation not only of the State Hazard Mitigation Plan, but also the state's Hazard Mitigation Program, and its overall performance during the previous five years. These planning and programmatic elements will be evaluated by both a regional and a national board of reviewers against a set of federal standards and guidelines, which will be designated as either "met" or "not met". There will be an opportunity for revision of the plan after the completion of each review process, if necessary, to allow for re-submission and another opportunity for approval.

There are currently a total of fifteen states that meet this designation. Once Enhanced Status has been achieved, a state will be eligible to receive 20% of total post-disaster funding, an increase of 5% from standard status. This increased funding would allow for a greater amount of mitigation projects to be funded under HMGP, which will further bolster the resiliency of the state as a whole.

The plan update process can be broken down in to three separate parts:

Plan Development: Utilizing funding received under the Pre-Disaster Mitigation Program (PDM), the content of the South Carolina Mutli-Hazard Mitigation Plan will be revised to reflect new and updated data and information over the previous five year period since plan approval (2018-2023). This will include, but will not be limited to:

- Hazard Mitigation Goals
- Hazard Mitigation Actions
- Hazard Mitigation Capabilities
- Summary of Major Presidential Disasters

This process will be completed by the SCEMD Hazard Mitigation Planning Coordinator, with the assistance of federal, state, and local agency partners.

Hazard Identification and Risk Assessment (HIRA): To accurately assess and visually depict the impact of the hazards which the state of South Carolina is most vulnerable to, contract services will be sought to create maps and tables representing each. It is currently anticipated that this will be funded via

multiple HMGP awards (see "Potential Grants" below). Should this opportunity be unavailable, alternate avenues will be sought.

For more detailed information, please see the "HIRA Scope of Work" section at the end of this document.

MitigationSC Online Platform: A key component of obtaining Enhanced Status will be to create and maintain a repository of hazard mitigation planning information. Not only will local mitigation plans be made available to counties for storage and review, but this platform will make hazard, risk, and vulnerability assessment data easily accessible to state and local agency partners for their individual planning needs.

Currently, a platform exists which was previously intended to perform the above mentioned functions. However, the needs of the state hazard mitigation program have changed and evolved since its establishment, and significant changes are required to meet this need. This will be achieved by creating a website off of the Palmetto EOC system, which is a tool utilized by SCEMD during State Emergency Operations Center activations to track resources, closings, traffic, and more detailed information in a GIS based platform. This system will be known as MitigatonSC, and is intended to be used for the mitigation program is being developed concurrently alongside mitigation plan development, and will be completed in phases as additional enhancements become possible.

The Hazard Identification and Risk Assessment (HIRA) being completed for input in to the hazard mitigation plan will also be required to produce background data and metadata which can be uploaded in to the MitigationSC platform upon completion. A critical portion of the scope of this project will be the ability to update data internally both on an annual basis and following major disaster events to ensure all information is reflected accurately at all times, and ensuring the needs of state and local partners are able to be met.

Funding:

Work to be Completed	Estimated Cost (Total)	Estimated Non-Federal Share	Federal Share Source	Non-Federal Share Source	Who Does the Work
Plan Writing	$92,250	$23,062.50	PDM FY2019		Force Account – McCoy
HIRA	$400,000	$100,000	HMGP/CDBG-Mit		RFP or Contract with USC
Mit SC Enhancement	$100,000.00	$25,000			ETI Contract

Potential Grants:

- **Hazard Mitigation Grant Program (HMGP)**
  - **DR-4492 –** COVID-19*
    - Deadline TBD
  - **DR-4464 –** Hurricane Dorian
    - Deadline July 30

    - **DR-4479 –** Severe Storms, Tornadoes, Straight Line Winds, and Flooding
        - Deadline June 30
    - **DR-4542 –** Severe Storms, Tornadoes, and Straight Line Winds
        - Deadline August 31
- **Community Development Block Grant (CDBG-Mit)**
    - **SCDRO**
        - Program guidance TBD
- **Pre-Disaster Mitigation Program (PDM)**
    - **FY2019**
        - Identified for Further Review June 2020
- **Building Resilient Infrastructure in Communities (BRIC)**
    - **FY2020**
        - Program guidance TBD
- **Emergency Management Performance Grant Program (EMPG)**
    - **FY2020**
        - Period of Performance ends September 30, 2022

Timeline:

Date	Milestone
June 2020	• DRO/DNR SHMP Kick Off Discussion • Internal SCEMD HIRA Requirement Discussion • FEMA Region IV SHMP Update Call • HHPD Planning Update Discussion • DR-4479 Application Deadline
July 2020	• Initial SHMP Steering Committee Meeting • MitigationSC Palmetto Integration • FEMA Region IV SHMP Update Call • DR-4464 Application Deadline
August 2020	• PDM Funding Received • Plan Development Begins • DR-4542 Application Deadline
September 2020	• HHPD Plan Submission Deadline
November 2020	• FEMA Region IV SHMP Update Call • SHMP Steering Committee Meeting
April 2021	• FEMA Region IV SHMP Update Call • SHMP Steering Committee Meeting
July 2021	• MitigationSC Enhancements Complete • FEMA Region IV SHMP Update Call • SHMP Steering Committee Meeting
November 2021	• FEMA Region IV SHMP Update Call • SHMP Steering Committee Meeting
April 2022	• FEMA Region IV SHMP Update Call • SHMP Steering Committee Meeting
June 2022	• HIRA Development Complete

August 2022	• MitigationSC HVA Integration and Graphics
November 2022	• Final FEMA Region IV SHMP Update Call • Final SHMP Steering Committee Meeting
December 2022	• Plan Development Complete
January 2023	• **Submission to FEMA** • Comment Period
September 2023	• ICC Adoption Period
October 2023	• **Plan Expiration**

External Agency Integration: SCEMD intends to form a steering committee that is specific to hazard mitigation planning for and composing the Enhanced State Hazard Mitigation Plan. The members will include, but are not limited to, the following agencies and personnel (subject to approval):

- **SC Emergency Management Division**
  - Emily Bentley
  - Melissa Potter
  - Elizabeth Melton
  - Rob Burton
  - Lindsey McCoy
  - Rachel McCaster
  - Charlie Kaufman
- **SC Department of Natural Resources**
  - Maria Cox-Lamm
  - Jessica Artz
- **SC Department of Health and Environmental Control**
  - John McCain
- **SC Law Enforcement Division**
- **SC Disaster Recovery Office**
  - Paul Fiorina
  - Phileshia Lewis
- **University of South Carolina**
  - Susan Cutter
- **Clemson University**
  - David Vaughn
  - Paris Stringfellow
- **Dorchester County***
  - Mario Formisano
  - GIS Planner
- **Saluda County***
  - Josh Morton
- **Charleston County***
  - Katie Faith

Statement of Purpose: The State of South Carolina faces many hazards, both natural and manmade, that pose a risk to the population and infrastructure. It is imperative that these assets and their respective vulnerabilities are identified prior to the onset of any adverse events in order to protect from any potential impacts to human life and property. Hazard mitigation is an essential component of this planning process which South Carolina seeks to implement in an increasingly deliberate manner. To achieve this goal, the pursuit of FEMA Enhanced Mitigation Plan status will provide a means to this end.

HIRA Scope of Work: SCEMD seeks contract support to conduct a statewide hazard identification and risk assessment that will inform the 2023 update of the South Carolina Multi-Hazard Mitigation Plan. To meet the requirements outlined in the FEMA State Mitigation Planning Guidance, this assessment will include research to identify the locations, extent (magnitude), and frequency/duration of occurrences of key hazards in South Carolina and the potential consequences and impacts of those hazards on people, property, and the environment. The project also will include analysis of potential future occurrences of identified hazards based on climate change projections. The analysis also will include vulnerability of the population and infrastructure of the state to the aforementioned hazards based upon demographics and land use changes.

Since the approval of the current South Carolina Multi-Hazard Mitigation Plan, the state has experienced five hurricanes, multiple severe weather events, and a worldwide pandemic. A robust updated hazard and risk analysis is needed to improve the state mitigation strategy. This analysis will inform priorities for future mitigation projects and local mitigation planning initiatives and will support government decision making regarding hazard planning and loss avoidance procedures. The first stage of the project will involve requesting bids on this scope of work to engage a firm or agency that best meets the needs of the state. The contractor/provider will have the ability to research, compile, and analyze hazard and risk data and provide the information in formats that align with systems used by the State to display hazard and incident information, including geographic information systems (GIS) and Palmetto SC. A priority of the state for these products is usability. Because the audience for the hazard identification and risk analysis includes state and local government users with varying levels of technical capabilities, it is imperative that the results are readable and clear.

The analysis will address all natural hazards to which South Carolina is vulnerable and several categories of human-caused hazards. The expected list of hazards to address includes:

- Civil Disturbance
- Coastal Hazards: Include Erosion and Sea Level Rise
- Cyber Failure or Attack
- Drought
- Extreme Heat
- Earthquake
- Flooding (Coastal Flooding, Dam/Levee Failure, Flash Flooding, and Riverine Flooding)
- Hail
- Hazardous Materials Release
- Hostile Action/Active Shooter
- Hurricanes and Tropical Storms
- Landslides, Land Subsidence, and Sinkholes
- Public Health Hazards/Infectious Disease

- Radiological Release
- Severe Thunderstorms and Lightning
- Severe Winter Weather
- Terrorism
- Tornadoes
- Tsunami
- Wildfire, Interface Fire, and Structure Fire

The hazard list to be included will be reviewed and agreed to by the State. Based on recent events, hazards of emphasis with include: flooding, tropical systems, and severe weather including tornadoes.

The State of South Carolina Hazard Mitigation Program will utilize an ESRI GIS platform to compile mitigation planning information and prepare maps to display hazard data and document completed hazard assessments. A key component of the hazard identification and risk analysis project will be a requirement to provide SCEMD with the baseline and background data on which the provider's analysis is based. This data will need to be provided in the form of an ESRI-based or a compatible format including but not limited to: REST, JSON, WTH, ThinkGIS, etc., and is required to be in shapefile (.shp) format. Data expected include hazard occurrence information (historic including recent), physical characteristics (e.g., flood plains/special flood hazard areas), social vulnerability factors, hazard modeling where useful for impact/consequence analysis, and risk analysis.

Content and project development will be informed by stakeholder workshops and project Steering Committee discussions. The opportunity will be made for local and state stakeholders to provide input and suggestions that will guide the evolution of not only the risk analysis itself but also the planning efforts that will result in the final updated state Multi-Hazard Mitigation Plan.

Deliverables:

- Comprehensive hazard analysis that addresses agreed-upon list of hazards based on best available and current data. Risk analysis by hazard on statewide basis and by county.
- Dataset on which analysis is based along with metadata.
- Hazard analysis information presented in shapefile format (able to be imported/integrated into GIS).
- Tables, maps, and other visual aids describing hazard occurrence, location, severity, and frequency/duration and impacts on people (casualties) and property, infrastructure, and the environment.
- Risk analysis score by hazard by county with formula that can updated with new data in future.

Hazard Mapping Examples: See examples **here.**

State Hazard Mitigation Plan (SHMP) Steering Committee Meeting – July 14, 2021

SCEMD Governor's Situation Room / WebEx

A video recording of this meeting is available at https://scemd.webex.com/scemd/ldr.php?RCID=ec7d8adde3445e971992cb633ca1af33

Password: WmyMuW5s

Attendees:

Present Attendees
- Emily Bentley, SCEMD, Chief of Recovery and Mitigation
- Rob Burton, SCEMD, Natural Hazards Plans Manager
- Phleisha Lewis, SCDRO, Mitigation Program Manager
- Lindsey McCoy, SCEMD, Hazard Mitigation Manager
- Candice Shealey, SCEMD, State Hazard Mitigation Officer
- Jason Romlein, SCEMD, Hazard Mitigation Planner

Virtual Attendees
- Billy Staley, Orangeburg Co. OES, Director of Emergency Services
- Maria Cox, SCDNR, State Coordinator, Flood Mitigation Programs
- Jessica Artz, SCDNR, Flood Mitigation Specialist
- John McCain, SCDHEC, Dams & Reservoirs Safety Program Manager

Agenda:

- Work plan update
- Enhanced plan status
  - Planning elements
  - Programmatic elements
  - FEMA review process
  - Benefits
  - Areas of improvement
  - Stakeholder support
- Open discussion and next steps

Discussion:

McCoy presented a PowerPoint presentation following the above agenda. The Presentation is available and relevant comments are captured below:

Work Plan Updates

The target date for SHMP plan is January 2023 with the current plan expiring October 2023

It was mentioned that there have been updates to the funding streams

Enhanced Plan Status

Bentley: reiterated that Mitigation in SC is decentralized and the importance of inter-agency collaboration. McCoy pointed out the importance of documenting this collaboration as part of the enhanced-plan elements.

Planning Elements

Re. E.3. Commitment to a Comprehensive Mitigation Program, **McCoy, Bentley and Lewis** reiterated that these actions are being done, but it is necessary to capture that process (i.e. Mitigaiton Road Shows, CDGB-Mit and other general support to actions that improve resilience). McCain states his support to helping document interagency collaboration re. HHPD.

Re. E.4. Capability To Implement Mitigation Actions, **McCoy** identified 406 IA and PA mitigation efforts for capture and mention

Re E.5. Effective Use of Existing Mitigation Programs To Achieve Mitigation Goals, **McCoy** identified this element as significant in time and effort, how to show the effectiveness of previous goals/objectives and metrics for capturing those going forward. Bentley identified the Floodwater Commission for mention and analysis.

Programmatic Elements

Bentley highlights that it is not essential to have all Enhanced Elements complete at the time of standard plan submission.

FEMA review process
Benefits
Areas of improvement
Stakeholder support

No Comments

Open Discussion

Lewis offered sharing SCRDO's Mitigation Match application submission as well as project completion. Generally getting into the "habit" of sharing information. **Bentley** recommended outlining and streamlining this sharing of information.

Re. establishing state priorities, **Burton** recommended using monthly (or regular) ICC committees to develop priorities. **Shealey** stressed the need to reassess state priorities. Staley supported reassessing priorities

Burton encouraged collaboration with David Thachik re the NIHERP program addressing seismic preparedness. Collaboration with him and using the "Hazards and Vulnerability Seismic ..." Report, we can expand our mitigation collaboration.

The THIRA Strategic Report identifies objectives by mission area, including mitigation. Having the report (which is adopted by multiple agencies) identifying the update and enhancement the SHMP as a strategy

can be useful for documentation collaboration for enhanced status. Mitigation funding streams can also be mentioned in the THIRA (Threat and Hazard Identification and Risk Assessment) and EOP (Emergency Operations Plan).

Romlein opened discussion about initiating outreach to participants and stakeholder to solicit recommendations on what the State's mitigation priorities should be, then upon reviewing that input recommending priorities for approval from the ICC, and lastly requesting goals and objectives from plan participants which address those ICC-approved priorities.

Lamm proposed broader education from all respective agencies about how their mission and capabilities and the nature of the current legal and political landscape in which they operate which allows this steering committee and possibly the ICC and even the legislature and general public to better comprehend the abilities and limitations of various agencies. **Bentley** proposed starting just with the state agencies and then submitting a "cheat sheet" to the ICC.

Burton proposed that the ICC-identified priorities be reflected in the Hazards and Vulnerability table at the end of the EOP

Re. E.2 Integration with Other State and/or Regional Planning Initiatives and FEMA Mitigation Programs and Initiative, **Burton and Bentley** identified using the Recovery Support Functions roster to help identify POCs for collaborating with the various sections. **Maria** suggested reaching out to Patrick Brown with State Building Codes (LLR) about possible Land Use and Development; Councils of Governments as well; DNR has a piece in that from floodplain perspective. Under Infrastructure, **Bentley** suggested that DOT (Transportation) would be a good resource.

Follow-Up Actions

- EMD will coordinate offline with SCDOR (and DNR) about streamlining communication, information sharing, and collaboration re mitigation projects; specifically follow up on sharing trackers and metrics.
- Romlein will begin outreach to stakeholder soliciting input regarding state priorities.
- Romlein will follow-up on the recommendations from the stakeholders regarding initiating collaboration and integration with other state programs.
- Additional tasks to be initiated as the work-plan and requirements are analyzed.

Next Meeting

Tuesday, October 19 at 10:00 AM
SCEMD Governor's Situation Room / WebEx
Agenda to be provided

Mitigation Interagency Coordinating Committee (ICC) Meeting Notes

Attendees

- Kim Stenson, Director, SCEMD
- Emily Bentley, Chief of Recovery and Mitigation, SCEMD
- Candice Shealey, State Hazard Mitigation Officer, SCEMD
- Lindsey McCoy, Hazard Mitigation Manager, SCEMD
- Jamie Blair, Deputy Director of Public Health Preparedness, SCDHEC
- Jill Stewart, Director of Dam Safety and Stormwater SCDHEC
- Karl Bitzky, P&C Unit Manager, SCDOI
- Ken Rentiers, Deputy Director for Land, Water and Conservation, SCDNR
- Hope MIzzell, State Climatologist, SCDNR

Notes

- Formally coordinate across agencies and discuss all current hazard mitigation priorities from planning to grant management.
    - Plan update, including goals, DR-4492 (COVID-19) HMGP priorities, BRIC FY2021 funding priorities.
- Currently working on SHMP 2023 Update. Sets statewide priorities, strategies, etc. for the next 5 years.
    - Please review updated goals for the 2023 plan.
    - Intending on working toward Enhanced Status, adds 5% to HMGP funds post-disaster.
    - Working with Steering Committee.
    - Hazard Identification and Risk Assessment (HIRA) is in process.
    - State Agency Workshop approaching this month.
    - ICC will adopt draft plan prior to FEMA submission, goal is to have a complete draft in January of 2023 ahead of the October 2023 expiration date.
- Took 2018 SHMP goals and updated them slightly.
- Plan contains all hazards, but main focus will be on natural hazards.
- Goal 4 first one with a slight change to more explicitly incorporate resilience.
- Goal 6 revises to encourage forward-thinking actions and consideration of factors that may affect future resilience, including climate change.
- Goal 7 revises wording to be more active and include infrastructure and nature-based solutions.
- Goal 8 is new, to address regional and broad-based projects.
- No committee input on the goals as proposed. Motion to approve by SCDNR, seconded by SCDOI. No discussion on the motion. All in favor, no opposed, motion carries. Goals are approved as written.
- SCEMD is coordinating with SCOR on their Resilience Plan currently in progress.
- Informal mitigation coordinating group between SCEMD, SCDNR, SCOR meets monthly to ensure priorities align. Looking to incorporate more agencies such as SCDHEC.
- HMGP funds for DR-4492 approved in early August, have a year to submit applications for $32.5 million available dollars. Pre-applications are due in November, full applications due in February.

Interagency Coordinating Committee Meeting – January 26, 2023

- Members present –
    - Karl Bitzky, SC Department of Insurance
    - Fran Veracalli, SC Office of Resilience
    - Kim Stenson, SC Emergency Management Division
    - Emily Bentley, SC Emergency Management Division
    - Hope Warren, SC Office of Resilience
    - Candice Shealey, SC Emergency Management Division
    - Lindsey McCoy, SC Emergency Management Division
    - Ben Duncan, SC Office of Resilience
    - Dr. Arnold Alier, SC Department of Health and Environmental Control
- 3 action items – selection of Chairperson per Executive Order, adoption of the SHMP, and BRIC priorities and funding update
- Floor open for nominations of ICC Chairperson. Mr. Bitzky makes a motion for Kim Stenson. Dr. Alier makes a motion to close. Seconded by Mr. Duncan. Nominations closed. Motion carries, EMD will maintain the position of ICC chair for the next year.
- The State Hazard Mitigation Plan is 5 year plan that provides and overall mitigation strategy and allows for federal grant eligibility.
- Been working with the SHMP Steering Committee since 2021, work began in 2020 for funding and work planning.
- Worked with USC HVRI for HIRA and utilized HMGP, PDM, and CDBG-Mit funding to cover costs of various portions of the plan.
- 7 Steering Committee meetings were held, along with 10 Technical Working Group meetings to discuss HIRA progress.
- Presenting the SHMP for approval and adoption, though it still requires some minor formatting changes.
- This plan provides an overview of major changes, to include an updated HIRA, added appendices and HHPD annex.
- Addition of climate change considerations, incorporation of Office of Resilience
- Comments were received from SCO, SCOR, EMD, DNR and incorporated appropriately throughout the plan.
- Included COVID-19 in the discussion of infectious disease.
- County emergency managers will have a two week period for review and comment.
- Motion to approve and adopt State Hazard Mitigation Plan – Mr. Bitzky motion to approve plan as presented with allowance for change based on future input. Dr. Alier seconded. No further discussion. Ayes have it. Motion carries. SHMP has been approved and adopted.
- BRIC 2022 is the largest grant cycle to date for non-disaster mitigation.
- Reminder of state set aside priorities, focus on SoVI scores and partnerships and coordination.
- 14 applications submitted 1/25, 8 on state set aside and 6 under national competition for $56 million federal share, with a total of just over $84 million.
- SCEMD anticipates project selections in the summer.
- BRIC 2021 had 18 applications submitted, 9 were selected for further review with 7 under the state set aside 2 for the national competition.
- 1 award received for Edisto Beach, and we anticipate more before end of January.
- BRIC 2020 had 32 applications, 6 were awarded for state set aside 1 was awarded under the national competition.
- Columbia Canal project awarded under BRIC 2020 national competition is working in conjunction with EMD Public Assistance project, completing environmental assessment before funding can be received.

- Trying to incentivize full applications that are ready for FEMA review, and don't result in many requests for additional information.
- Draft priorities presented for review and approval. No questions or comments posed.
- Jill Stewart, SCDHEC commentary on nature-based solutions: it is not a well-defined term and will be a challenge to incorporate and define. If it ranked equal to other priorities, may result in invalid solutions. Potentially should be half of a point as opposed to a full point. SCEMD will look at revising point downward.
    - USACE, EPA have come up with guidance on nature-based solutions, but it remains amorphous.
    - Propose motion to reduce weighting factor for nature-based solutions from one point to half a point. Motion seconded.
    - Director Stenson, SCEMD do we need to add half a point elsewhere in order to balance? We have other half point options elsewhere, there should not be an issue with total points.
    - No further questions or comments. All in favor, no opposed, motion carries.
- Working to recognize need to make grants more accessible to less resourced communities, resulting in points for equitable distribution.
- Incentivizing communities getting involved in applying for mitigation grants for the first time.
    - No further comments or question.
- Big change is taking points away for an incomplete application after 3 requests for information to further incentivize full and complete applications at time of submission.
    - No further comments or questions.
- No comments or questions on the overall mitigation project priorities. Motion to approve HMGP funding priorities as proposed, with amended language for nature-based solutions. Motion to approve by SCDOI, seconded by SCDHEC. No further discussion, all in favor, motion carries.
- BRIC applications open as of last week, will be due to SCEMD on November 19 and submitted to FEMA no later than January 28, 2022.
- There is a state set-aside and a nationally competitive category. Last year only had one project move forward that was nationally competitive.
- Currently hosting virtual and in-person applicant briefings for BRIC and HMGP, and participating in presentations with SCDNR and SCOR.
- FEMA has a set review criteria and set of priorities.
- $1 million state set-aside federal share, $500,000 available for planning and planning-related activities. Mitigation planning is the top priority for state set-aside applications.
    - No further comments or questions.
- BRIC emphasizes and prioritizes very large projects.
    - No further comments or questions.
- Motion to approve BRIC funding priorities as proposed by SCDNR. Seconded by SCDHEC. No further discussion, all in favor, motion carries.
- Would like to establish a recurring meeting to update on the progress of each item discussed today, including grants and planning efforts.
- Jill Stewart, SCDHEC received a NOFO for HHPD grant program. Received $500,000 again this year to use on eligible dams. This round of funding, like the previous two, is for engineering

analysis to repair eligible dams. Also have money from last year that is eligible again, totaling about $1 million dollars in available funding. NOFO placed in the chat.
    - Director Stenson, SCEMD how are eligible dams defined? Jill Stewart, SCDHEC FEMA defined it as unacceptable condition and potential impacts from its failure. From the 2020 list, SC has maybe 40 dams but it has changed this current cycle to use a risk matrix based on population at risk and consequences. Only 9 eligible dams as a result, but several are privately owned and would require a public sector sponsor. Will provide a link with further information.
    - Has been further outreach done, and a webinar posted online.
    - Director Stenson, SCEMD if dams are privately owned, we might be able to help with finding a public sector sponsor. Jill Stewart, SCDHEC at least 3 dams are in Richland County.
- No further comments or discussion. Meeting adjourned.

SHMP Technical Working Group Meeting – May 27, 2021

WebEx

Attendees:

- Emily Bentley
- Dr. Susan Cutter
- Candice Shealey
- Charlie Kaufman
- Lindsey McCoy
- Tara Pewa

- Timeline in broad terms – Dr. Cutter and her team are getting started this month, June, and working all the way through June or later of 2022, potentially through August.
    - There is a detailed timeline in the proposal that Dr. Cutter submitted.
    - Data integration will be worked on throughout the entire process – a sets are built up, we will want to look at how datasets can be integrated not only into the plan, but also in to SCEMD systems.
- Have discussed beginning with flood hazard data as the first set to update due to the amount of activity surrounding this hazard, including the Flood Resiliency Plan being developed by the SC Office of Resilience. This can be a good test for data integration and identify any potential issues.
- Have identified the need to generate and build data in a way that it can be used for a GIS platform for statewide planning purposes, beyond informing the SHMP update.
- Preferable to prepare shapefiles and prepared maps for the SHMP which will also allow for additional products to be generated in the future.
- MitigationSC will have data available through REST service through Dr. Cutter or if we have the shapefile at SCEMD, the individual counties or whoever is building the mitigation plans would have the "one-stop shop" to build the maps that they need individually.
    - Most important question to identify initially is where the data will ultimately live – at SCEMD, in the cloud, or at HVRI. This will provide a starting point.
        - Data will be housed at SCEMD.
    - HVRI understood that SCEMD would take and host the entire dataset, and also perform any desired updates.
        - Link to SOVI? HVRI will provide output, but not any of the data input.
    - Physical and hazard information will be there, losses are a static feature and can be updated every year by going to the SHELDUS database (accessible for free in SC). SOVI is only able to be updated on a 5 year basis because of demographic information.
        - 5 year cycle is drawn from a census product from American Community Survey, which is a 5 year average because it is a 20% sample every year.
        - If done in 2015, 2016, there is no real difference because it is using 4 out of 5 years of the previous cycle. HVRI tries to do it in 2000, 2005, 2010, etc. because it can be matched with the decennial census.
        - There is not much demographic change in a 5 year window, in most instances.

- SCEMD links to SOVI REST service for a few applications as it is, but it is the service provided through ESRI. This set is old and incomplete, per Dr. Cutter.
- SOVI on the FEMA National Risk Index is also 5 years old. Exposure and loss data is likely equally as old.
- Will need to check what our limitations may be in terms of storage, but likely ok.
- HVRI will start with is the hazard identification and exposure data, and looking at what is in the 2018 plan and replicating that, in terms of what the maps would look like, and the data that went in to the maps.
- Using ArcInfo with GeoDatabases and going back to the original source that was used in 2018, 2013, so that there is consistency in sources if they are still available. This will then be updated to the most current available data for the 2023 update. This is a very long process, because some of the information that comes from the sources like USGS or NWS requires some manipulation on HVRIs part to get it in to a form that is actually useful for emergency management as opposed to climatologists.
- The issue that may arise is the frequency of the update of some of the information.
    - Suggested 2020 would be the update, and that would give us a year and a half lag in some of the data. If that is not the case, it may be that some datasets may be reflecting 2019 updates rather than 2020.
        - For example, for the loss datasets, SHELDUS is not scheduled for update to a new version until November 2021. This will reflect 2020 loss data.
        - If a complete package for floods is provided by the end of the summer, for example, as a way of testing integration, 2019 loss data will be used. SHELDUS data will have to be updated after it comes in.
        - There is a fairly extensive Excel spreadsheet that has all of this information on it, which will have boxes marked for data that needs to be updated and when to make sure data is most current.
    - Risk Scoring – some progress made by downloading all of the state hazard mitigation plan that are the most recent for every state (2018 to current). One grad student going through plans to see how they develop their risk rankings, and what the consistencies and differences are between states. Most relevant literature will also be analyzed for new trends. Will re-evaluate in a few months regarding what the process will look like.
    - Any substantial change will need to be approved by SCEMD leadership, with comparisons, benefits of the delta.
- SCEMD overview of datasets we typically house and use and manipulate:
    - Have state critical facilities collected in REST services, including hospitals, EMS stations, schools, police departments, etc. updated once per year and able to be linked to.
    - Minor hazard data collected from USGS for earthquakes, hurricane evacuation zones updated this year.
    - Collection of state dams, including DHEC and FERC regulated dams. Dams are categorized, updated with the last yearly update.
    - This is all run through EMCOP Palmetto.
    - Multiple web based applications up and running that provide an overview of the state through ArcOnline.

    - MitigationSC also through ArcOnline and will host REST services and will be able to be accessed by local governments for their planning purposes.
    - Ready to be integrated with all services and products provided by HVRI.
    - Only private data is due to signed agreements unless in a time of disaster.
    - Running Pro on 90% of systems, entire GIS is in the cloud, and will have 10.7 on the server. Any products created would be wanted in Pro. Can convert desktop to Pro. Pro is preferred.
- Availability of recent data will be the biggest challenge throughout the update process. Could foresee a situation where a data source may be encountered that is not updated frequently enough and an alternate would need to be used. If that is the case, would need to swap out entire period of record for that data and input a new one. There may not be a 1:1 correspondence between what was in 2018 plan and what will be in the 2023 plan.
    - Can include a metadata note in "methodology" section if that is the case.
    - Always try to use publicly available data from federal sources, but some are more available than others. Hope that there is a long enough period of record for data to be useable.
    - Will approach on a case-by-case basis.
- SCEMD has an FTP site that can be used as a method of deliver if a REST service is not able to be used. Because data is vector data, it ultimately should be too large to deliver.
- Meeting cadence will be every other month for the beginning period to allow time for data collection to begin. Next meeting to take place in July, potentially the week of July 19th or the 26th.
- Action items: SCEMD will check on storage capabilities, HVRI will check in to REST services to see what kind of data SCEMD has, will fill in tabular information as previous plan is reviewed.

SHMP Technical Working Group Meeting

August 5, 2021

Location: SCEMD Executive Conference Room / WebEx

Webex Meeting Recording Link:
https://scemd.webex.com/scemd/ldr.php?RCID=22b978e5ce7e255f87134ae114bf64b8

Attendees:

- Dr. Susan Cutter
- Candice Shealey
- Charlie Kaufman
- Lindsey McCoy
- Tara Plewa
- Jason Romlein

Agenda

- Timeline Review
    - Compare USC timeline to SHMP timeline
    - Update of HIRA progress
    - Establish milestone for data and format review
- Review of Required Elements for state plan
    - Compare to USC HIRA SOW
    - Incorporate E. Bentley's recent notes from discussion w/ Dr. Cutter
- Formatting discussion
    - data being saved in a way that it can be used for a GIS platform
        - Shapefiles and Prepared Maps
    - Data will be housed at SCEMD
        - Any update on check on check on storage limitations
        - Confirm Rest Service or FTP site as a method of delivery
- Other issues discussed during last meeting (see below)
    - Data Integration with SCOR Flood Mitigation Plan
    - Link to SOVI? HVRI will provide output, but not any of the data input.
- Open Discussion/Additional Issues
    - Candice: regarding
        - USC is in the process of addressing this
            - RE the flood module, it will be completed in the same fashion as 2018
                - Experiencing some glitches between different types of flooding
                - Creating work-arounds
- Establish date for next meeting
    - Mornings are better,
    - Tuesdays are difficult for Dr. Cutter

SHMP Technical Working Group Meeting

September 30, 2021

Location: SCEMD Executive Conference Room / WebEx

Webex Meeting Recording Link:

Attendees:

- Dr. Susan Cutter
- Candice Shealey
- Charlie Kaufman
- Lindsey McCoy
- Tara Plewa
- Jason Romlein

Agenda

- Timeline Review
    - Compare USC timeline to SHMP timeline
    - Update of HIRA progress
- Review of Required Elements for state plan
    - Compare to USC HIRA SOW
    - Incorporate E. Bentley's recent notes from discussion w/ Dr. Cutter
- Formatting discussion (See Formatting page at end)
- Updated notes regarding RL data (From Emily)
- Follow up on issues discussed during last meeting (see below)
    - Data storage location
        - Has everyone on the USC team tested their access
        - Has there been a chance to review the 2018 data which was located
- Establish date for next meeting
    - Mornings are better
    - Tuesdays are difficult for Dr. Cutter

Discussion:

Do-Outs:

Blue font = SCEMD do-outs

Red Next Steering Committee Meeting

    - Dr. Cuttter has a conflict on the 19, can do the 20th (Lindsey)
- Next Tech Group meeting
    - **SCEMD will propose 3 options for the end of October (Jason)**

Formatting Discussion

- Request Excel versions of all tables/data
  - Table on p.1 and
  - Graph on p.2
  -
- Map-specific issues
  - Discuss whether can develop maps using SCEMD BaseMap
    - Would allow future manipulation by us and consistent formatting if we create our own maps in the future to use in conjunction with what is developed in HIRA.
  - Address respective color/font/road overlay/title comments for each graphic.
  - Some maps may better display data if further broken into regional maps; we can point to specific examples.
  - All maps need to reference metadata to indicate year or range of years from which data was gathered.
  - Regarding dams map, need to make easier to read generally. One map should/could focus on high-hazard dams.
    - Include additional dams from REST service or a .zip file that Charlie can provide.
    - We will provide more detail.

Discussion:

Blue font = SCEMD do-outs

Red font = USC do-outs

- Timeline
    - Dr. Cutter informs the HIRA deliverable deadline has been pushed to SCEMD to August 2022
    - Estimating flood data to be ready by the end of August
    - Hiccup with Repetitive Loss data, Emily will be checking with RIV for relevant data
        - Dr. Cutter has spoken with Jessica Artz
        - Looking at a county count level
        - **Dr. Cutter asks if E. Bentley has had any progress obtaining that data**
    - **Dr. Cutter will send updated HIRA timeline**
- 2018 HIRA Data has been located on EMD Servers
    - USC will use that for data comparison
- Data is being saved in a way that it can be used for a GIS platform
    - All USC data is being saved into a geodatabase
    - Will have sub-county data as well
- Data storage location
    - C. Kaufman has saved it into a location in ExaVault
        - see his email sent August 4, 2021 at 9:50am
    - USC will test their access, review the 2018 data
- Link to SOVI? HVRI will provide output, but not any of the data input.
    - Confirmed
- Next Steering Committee Meeting
    - Dr. Cuttter has a conflict on the 19, can do the 20th (Lindsey)
        - Mornings are better than afternoons
    - **J. Romlein will pick dates for approval**
- Next Tech Group meeting
    - **SCEMD will propose 3 options for the end of September (Jason)**

SHMP Technical Working Group Meeting

January 14, 2022

Location: SCEMD Response Conference Room / WebEx

Webex Meeting Recording Link:

Attendees:

- Dr. Susan Cutter
- Emily Bentley
- Candice Shealey
- Emily Hildebrand
- Lindsey McCoy
- Tara Plewa
- Sarah Jackson
- Jason Romlein

Agenda

- Timeline Review
    - Compare USC timeline to SHMP timeline
    - Update of HIRA progress
        - Tornado and hail week of Jan 17
        - Some delays due to HAZUS-MH, FEMA help desk unresponsive
            - EB offered to reach out to FEMA
            - May
        - Flood data Uploaded in November to FTP site
        - Schedule regular check for data updates
        - Provide FTP file path to Little EM
    - No foreseen problems delivering by August '22
- Review of most recent Hazards Data
- Formatting discussion (follow up on items discussed in previous meeting)
    - Schedule time to review data with Little Em.
        - After GIS training next week
- Re Climate impacts
    - Hard data and statistics are not readily available
    - May be best addressed in a narrative form using subjective and
    - Using climate report as context for summary
    - Include professional summaries?
- Administrative matters?
    - Checking on invoices
    - RL/SRL data update (from Emily)
    - Extension of grant time (POP) to allow for follow up assistance after all data is delivered
- Establish date for next meeting
    - Tuesdays are difficult for Dr. Cutter

        - Teach mon, wed, thur mornings
    - Friday mornings are good
    - Mon/wed 10 or after
    - Spring break March 7-11
        - First or third weeks are good

Discussion:

Do-Outs:

Attempt HAZUS Data, let EMD Know if we can support either via FEMA POC or accessing via our CAC card

Blue font = SCEMD do-outs

Red Next Steering Committee Meeting

- Next Tech Group meeting
    - **SCEMD will propose 3 options for the end of February (Jason)**

Formatting Discussion

- Still waiting on Excel data versions of flood tables/graphs
    - Table on p.1 and
    - Graph on p.2
- Map-specific issues
    - Was HAVRI able to redo maps on EMD base layer as requested?
    - Were specific requested state maps able to be broken down into component regions?
    - Incorporation of metadata indicating year(s) from which data was gathered?
    - Some maps EMD will be able to redo once built on EMD base layer
    - Dams map refocused on high-hazard dams.
        - Dams map, Charlie was going to include additional dams from REST service or a .zip file; can EH find that?

SHMP Technical Working Group Meeting

March 4, 2022

Location: SCEMD Response Conference Room / WebEx

Webex Meeting Recording Link:

Attendees:

- Dr. Susan Cutter
- Emily Bentley
- Candice Shealey
- Emily Hildebrand
- Lindsey McCoy
- Tara Plewa
- Sarah Jackson
- Jeff Hill
- Tyler Spires

Agenda

- Timeline Review
    - Compare USC timeline to SHMP timeline
    - Update of HIRA progress
- Review of most recent Hazards Data
- Formatting discussion (follow up on items discussed in previous meeting)
    - Schedule time to review data with Emily Hildebrand
        - After GIS training next week
- Administrative matters?
    - Invoices paid and pending
- Establish date for next meeting

Discussion:

- Follow up on…
    - Delays due to HAZUS-MH, FEMA help desk unresponsive
        - Emily Bentley had offered to reach out to FEMA at last meeting
    - Maps since EMD provided feedback
    - RL/SRL data update (from Emily Bentley)
    - Extension of grant time (POP) to allow for follow up assistance after all data is delivered

Do-Outs: (Blue = SCEMD, Red = HVRI)

Next Tech Working Group Meeting: April 8th?

South Carolina State Hazard Mitigation Plan Update Steering Committee Meeting

Tuesday, April 20, 2021 – 10:00 AM

SCEMD Governor's Situation Room / WebEx

Agenda

10:00 – 10:05: Purpose and Participants

10:05 – 10:10: Planning Objectives

10:10 – 10:20: Planning Process

10:20 – 10:30: Update Timeline

10:30 – 10:45: Enhanced Plan Status

10:45 – 11:00: Open Discussion and Next Steps

Next Meeting: Tuesday, July 13th @ 10:00 AM, SCEMD/WebEx

State Hazard Mitigation Plan (SHMP) Steering Committee Meeting – January 19, 2021

SCEMD Governor's Situation Room / WebEx

A video recording of this meeting is available at: ____

Password: _____

Attendees:

Invited (For my reference only, removed at final draft)

Emily Bentley, SCEMD, Chief of Recovery and Mitigation
Katie Norris, SCEMD Deputy Chief of Recovery and Mitigation
Rob Burton, SCEMD, Natural Hazards Plans Manager
Megan Wood, SCEMD, Mass Care and COOP/COG Program Manager
Bob Connell, SLED, SAA Program Manager
Maria Cox, SCDNR, State Coordinator, Flood Mitigation Programs
Ed Darby, Director, Chester County Emergency Management
Jeff Hill, SCEMD, Hazard Mitigation Planner
Jason Romlein, SCEMD, Hazard Mitigation Planner
Emily Hildebrand, SCEMD, GIS Manager
Phleisha Lewis, SCDRO, Mitigation Program Manager
John McCain, SCDHEC, Dams & Reservoirs Safety Program Manager
Jill Steward, SCDHEC, Dam Safety and Stormwater Director
Lindsey McCoy, SCEMD, Hazard Mitigation Manager
Candice Shealey, SCEMD, State Hazard Mitigation Officer
Jessica Artz, DRO, Flood Mitigation Program Mapping Specialist
Maria Cox, Flood Mitigation Program State Coordinator
Ed Darby, Chester County Emergency Management Director
Bill Staley, Orangeburg County Director of Emergency Services
Dr. Susan Cutter, Director, Hazard and Vulnerability Research Institute, USC
Alex Butler, Resilience Planning Director, SC Office of Resilience

Present Attendees

Emily Bentley, SCEMD, Chief of Recovery and Mitigation
Jason Romlein, SCEMD, Hazard Mitigation Planner
Jeff Hill, SCEMD, Hazard Mitigation Planner
Nick Coconato, SCEMD Mitigation Administrative Assistant
Candice Shealey, SCEMD, State Hazard Mitigation Officer
Hope Warren, SCOR State Planner III
Emily Hildebrand, SCEMD, GIS Manager
Megan Wood, SCEMD, Mass Care and COOP/COG Program Manager
Rob Burton, SCEMD, Natural Hazards Plans Manager
Emily Bentley, SCEMD, Chief of Recovery and Mitigation
John McCain, SCDHEC, Dams & Reservoirs Safety Program Manager
Dr. Susan Cutter, Director, Hazard and Vulnerability Research Institute, USC

        - Invite DNR and DHEC HHPD to future FEMA
        - John McCain wants a private call regarding the HHPD element
        -
- HIRA updates
- Format/Color Scheme
    - Make Map fonts match plan font

Discussion:

- Recap Enhanced Plan Meeting from Tuesday, Jan 18
- SCOR Resilience Plan
    - Maintaining open dialogue to ensure…
        - how will the plans complement each other?
        - Continuing steps to prevent duplication of effort?
- Climate change analysis re land use, pop. change, other factors.
    - Is there a need for a review of updated HIRA flood data with DNR (and State Climatologist), SCEMD, Depts. of Agg. And Commerce?
        - Respective interpretations?
        - Collaborative Interpretation?
    - Alex Butler (SCOR) was working on compiling and Summarizing global climate change data and applying it to SC specifically,
            - Progress on this?
    - Most current land use data appears to be from 2016
    - No update on obtaining Fathom software for flood modeling
- Last meeting it was noted that the Hazard and vulnerability assessment spreadsheet in the EMAP has to identify every hazard listed in the SHMP,
    - Timeframe for this EMAP action vs. HIRA data timeline?
- Next steps
- Open Discussion
    - Resilience Plan
        -

Virtual Attendees

Agenda:

- Introduction
- Timeline
    - RB: consider adding to timeline
        - Summer of 2023, EMAP onsite assessment, will conduct a review of the most current approved SHMP
    - ~~Add 4-quarter review (July 22-Jun23)~~
    - FEMA guidance release
- Work plan update
    - Mitigation Actions updates in progress
    - Sections Updates in Progress
    - HIRA updates
    - Format/Color Scheme
- Discussion
- Follow-up Actions
- Next Meeting

Work Plan Update:

- Mitigation Actions updates in progress
- Sections Updates in Progress
    - Section III state water cover
        - Comparison map from previous plan
    - RE 4- Quarter Re view:

Follow-Up Actions

Next Meeting

- Any time/date constraints?
- Date: Wednesday, April 20, 2022
- Location: SCEMD _____ Conference Room / WebEx
- Agenda to be provided

State Hazard Mitigation Plan (SHMP) Steering Committee Meeting – April 20, 2022

SCEMD Governor's Situation Room / WebEx

Attendees:

Emily Bentley, SCEMD, Chief of Recovery and Mitigation
Katie Norris, SCEMD Deputy Chief of Recovery and Mitigation
Andrew Phillips, SCEMD, Natural Hazards Plans Manager
Megan Wood, SCEMD, Mass Care and COOP/COG Program Manager
Lindsey McCoy, SCEMD, Hazard Mitigation Manager
Candice Shealey, SCEMD, State Hazard Mitigation Officer
Jeff Hill, SCEMD, Hazard Mitigation Planner
Tyler Spires, SCEMD, GIS Hazard Mitigation Planner
Emily Hildebrand, SCEMD, GIS Manager
Bob Connell, SLED, SAA Program Manager
Maria Cox, SCDNR, State Coordinator, Flood Mitigation Programs
Ed Darby, Director, Chester County Emergency Management
Phleisha Lewis, SCOR, Mitigation Program Manager
John McCain, SCDHEC, Dams & Reservoirs Safety Program Manager
Jill Stewart, SCDHEC, Dam Safety and Stormwater Director
Jessica Artz, SCDNR, Flood Mitigation Program Mapping Specialist
Billy Staley, Orangeburg County Director of Emergency Services
Alex Butler, Resilience Planning Director, SC Office of Resilience

Agenda

1. Welcome and Introductions
2. Timeline Recap
    a. Timing of Plan Reviews and Submission
3. SHMP Update Progress
    a. Updated FEMA Planning Guidance
    b. HIRA Deliverables
    c. MitigationSC Updates
    d. Progress Toward Enhanced Status
4. External Agency Presentations
    a. SCOR Resilience Plan Update
    b. SCDHEC HHPD Update
5. Topics for FEMA Annual Consultation
    a. Diversity, Equity and Inclusion
    b. Climate Change
6. Open Discussion
7. Follow-up Actions
8. Next Meeting

State Hazard Mitigation Plan (SHMP) Steering Committee Meeting – July 20, 2022

SCEMD Governor's Situation Room / WebEx – 10:00 AM

Invited Attendees:

Emily Bentley, SCEMD, Chief of Recovery and Mitigation
Katie Norris, SCEMD Deputy Chief of Recovery and Mitigation
Andrew Phillips, SCEMD, Natural Hazards Plans Manager
Megan Wood, SCEMD, Mass Care and COOP/COG Program Manager
Lindsey McCoy, SCEMD, Hazard Mitigation Manager
Candice Shealey, SCEMD, State Hazard Mitigation Officer
Jeff Hill, SCEMD, Hazard Mitigation Planner
Tyler Spires, SCEMD, GIS Hazard Mitigation Planner
Emily Hildebrand, SCEMD, GIS Manager
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Jessica Artz, SCDNR, Flood Mitigation Program Mapping Specialist
Billy Staley, Orangeburg County Director of Emergency Services
Alex Butler, Resilience Planning Director, SC Office of Resilience

Agenda

1. Welcome and introductions
2. SHMP update progress
    a. Timing of plan reviews and submission
    b. HIRA deliverables
    c. Mitigation objectives discussion
3. Updated FEMA Planning Guidance
    a. Major changes
    b. Impacts to enhanced status progress
4. Recap of FEMA Annual Consultation
5. Open discussion
6. Follow-up actions
7. Next meeting

State Hazard Mitigation Plan (SHMP) Steering Committee Meeting – July 20th, 2022

SCEMD Governor's Situation Room / WebEx

Attendees:

Emily Bentley, SCEMD, Chief of Recovery and Mitigation
Katie Norris, SCEMD Deputy Chief of Recovery and Mitigation
Andrew Phillips, SCEMD, Natural Hazards Plans Manager
Megan Wood, SCEMD, Mass Care and COOP/COG Program Manager
Lindsey McCoy, SCEMD, Hazard Mitigation Manager
Candice Shealey, SCEMD, State Hazard Mitigation Officer
Jeff Hill, SCEMD, Hazard Mitigation Planner
Tyler Spires, SCEMD, GIS Hazard Mitigation Planner
Emily Hildebrand, SCEMD, GIS Manager
Bob Connell, SLED, SAA Program Manager
Maria Cox, SCDNR, State Coordinator, Flood Mitigation Programs
Ed Darby, Director, Chester County Emergency Management
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Jessica Artz, SCDNR, Flood Mitigation Program Mapping Specialist
Billy Staley, Orangeburg County Director of Emergency Services
Alex Butler, Resilience Planning Director, SC Office of Resilience

Agenda

1. Welcome and Introductions
2. Timeline Recap
    a. Timing of Plan Reviews and Submission
3. SHMP Update Progress
    a. Updated FEMA Planning Guidance
    b. HIRA Deliverables
    c. MitigationSC Updates
    d. Progress Toward Enhanced Status
    e. Recap of Consultation
4. New Policy Guidance and discussion
5. External Agency Presentations
    a. SCOR Resilience Plan Update
    b. SCDHEC HHPD Update
6. Open Discussion
7. Follow-up Actions
8. Next Meeting

Steering Committee Meeting

July 20, 2022

Attendees:

SCEMD: Emily Bentley, Lindsey McCoy, Jeff Hill, Addie Roberson, Tyler Spires, Melissa Potter, Megan Wood, Emily Hildebrand
DHEC: John McCain
SLED: Bob Connell
SCOR: Alex Butler

Introduction

SHMP Update Due Dates:

- *July 31* – Capabilities
- *Aug 4* – Hazard Narratives
- *Aug 31* – Draft Revisions
- *Sept 16* – Final Draft Complete
- *Nov 1* – Steering Committee Review

State Plan Draft Progress: working towards September 16th deadline. Mitigation Actions and capabilities communications have been ongoing, and responses are being received working towards finalized product mid-August.

Plan Objectives

Providing solidified objectives for each of the eight ICC approved Goals. Examples are included within the PowerPoint, feedback on generating objective ideas.

New FEMA Guidance

- Requires more specific information
- Standard Plan criteria main features outlined within slides
- Enhanced Plan criteria has become much more stringent
    - Both criteria can be seen in more detail within crosswalk comparison attached to email.
- - mapping social vulnerability to demonstrate and improve equity and inclusion
- 2023 State Plan to be submitted under new guidance
- Climate change factors are a priority within new plan guidance, climate change and environmental and social effects must be identified throughout each feature of the plan.
- - Alex Butler: SCOR utilizes the SC Climate Report developed by CISA

Enhanced Plan Status

- FEMA introduced a "pre-qualification" for HMA Audits
- - Now a review of prior 4 quarters
- 2023 or 2024 ETA for Enhanced Status

- FEMA Consultation explaining Enhanced Plan Status allowed for further in-depth information on how guidance will be used as a tool for reviewing and regulating standard and enhanced state hazard mitigation plans. The consultation also provided more insight on what guidelines meant, how and when they will be fully enacted, and how we as a state can prepare for when the April 2023 deadline.

State Resilience Plan Update:

- SCOR received an extension for the state resilience plan (July 1, 2023)
- Flood Vulnerability Assessment pending review
- Climate chapter pending review
- Local government outreach will be scheduled at a later date

HHPDs:

Dam-related narratives will be reviewed and then sent for feed back to DHEC .

Next Meeting: November 1 @ 10am