APPENDIX C. MEETING DOCUMENTATION

Appendix C includes meeting agendas, sign-in sheets and meeting notes (where applicable and available) for meetings convened during the development of the Cattaraugus County Hazard Mitigation Plan.





| Meeting | Cattaraugus County H | azard Mitiga | ation Plan (HMP) Steering Committee Kickoff Meeting |
|-----------|--|---------------------------|---|
| Date | July 24, 2019 | Time | 10:00 a.m. – 12:10 p.m. |
| Location | Cattaraugus County P | ublic Works | Conference Room, 8810 Route 242, Little Valley, NY |
| | Jack Searles, County | Administrate | or, Cattaraugus County |
| | Christopher Baker, Dir | ector of Em | ergency Services, Cattaraugus County Emergency Services |
| | Devin Blue, Deputy Co | ommissione | r, Cattaraugus County Department of Public Works (DPW) |
| | Mark C. Burr, Director, | Engineerin | g and Highway Divisions, Cattaraugus County DPW |
| Attendees | Naomi Gennings, Nation County Emergency Se | onal Incider rvices | nt Management System (NIMS) Coordinator, Cattaraugus |
| | Chris Holewinski, Geo Office of Real Property | graphic Info and GIS S | rmation System (GIS) Coordinator, Cattaraugus County ervices |
| | Kim Merrill, Secretary | to the Comr | nissioner, Cattaraugus County DPW |
| | Tony Subbio, Project N | /lanager, Te | etra Tech |

Purpose

The purpose of the kickoff meeting was to initiate the planning process to update the Cattaraugus County HMP. The meeting provided an opportunity for the Steering Committee to meet Tetra Tech's project manager and to discuss the project.

Discussion Points

This section summarizes each discussion point addressed during the kickoff meeting.

Introductions

Mr. Baker welcomed attendees. Attendees introduced themselves, identified their experience in hazard mitigation planning, and described their areas of focus and concern for the planning process. Those concerns are summarized below.

- Mr. Searles stated that he fully supports the County's mitigation efforts. He noted that there are "hot spots" throughout the County where hazards have significant impacts.
- Mr. Baker stated that the County's communities are being affected by flash flooding on small creeks and streams caused by storms that pass through the area.
- Ms. Gennings maintains a database of hazard impacts. Mr. Subbio requested the database. Ms. Gennings
 reported that the County is experiencing 100-year storms quite often. Culverts and stormwater
 management structures cannot handle the amount of water from these storms. Some municipalities are
 independent to a fault, and deny the County's offers of assistance.
- Mr. Holewinski wants to develop data that the County receive to make the mitigation process easier.
- Mr. Burr reported that the first two versions of the HMP were written internally, mostly by DPW personnel. He wants to focus on outreach to the 32 towns, 2 cities, and 9 villages. The County's small communities are



intimidated by bureaucracy, and the County has struggled with communicating with these municipalities. Mr. Burr suggested coordinating with the Town Boards and Highway Superintendents for information. Most of the damaged infrastructure is owned by municipalities. Three tribal reservations are located within the County. The reservations' representatives participate in county planning efforts, but they have their own mitigation plans and will not be involved in this HMP update. Mr. Burr would like to see more detailed projects identified and further developed than had been in the past versions of the HMP. The County has struggled to determine valid cost estimates for identified projects. Local officials need education on mitigation. The County has provided mitigation project application support, but has not led the implementation of any mitigation project'.

- Mr. Blue has been involved in a few acquisition projects.
- Ms. Merrill has worked with the Town of Albion on a mitigation project.

Project Scope Review

This section summarizes each phase of the project discussed at the kickoff meeting.

Phase 1 - Organize the Resources

Mr. Subbio discussed the formation of the Planning Partnership (the Partnership), which is the group of representatives from jurisdictions and stakeholder agencies involved with the HMP update process. The Planning Partnership Kickoff Meeting is scheduled from 6:00-8:00 p.m. on September 19, 2019. The meeting will be held to introduce the members to the planning process and explain the data-gathering worksheets that each jurisdiction will need to complete.

The County Department of Economic Development, Planning, and Tourism will be represented on the Steering Committee; however, the representative was unavailable for the meeting. Other County departments will be invited to participate as members of the Planning Partnership. Emergency Services has points of contact for all municipalities and schools in the County. The Department of Economic Development, Planning, and Tourism maintains lists of business and industry groups in the County, and these groups will be invited to participate. The following state and federal agencies are active in Cattaraugus County and will be invited to participate in the planning process:

- New York State Police (NYSP)
- NYS Office of Fire Prevention and Control (OFPC)
- NYS Department of Environmental Conservation (DEC)
- NYS Department of Transportation (NYSDOT)
- U.S. Army Corps of Engineers (USACE)

Municipalities will complete a Letter of Intent to Participate (LOI) to acknowledge that they will be plan participants and to confirm understand of their roles and responsibilities in the planning process. Mr. Subbio provided the template LOI to Mr. Baker on July 13, 2019. Mr. Baker will discuss the LOIs at the County's two shared services meetings on August 15 and August 29, 2019. Mr. Baker will then coordinate distributing the LOI templates and receiving completed LOIs.



Mr. Subbio provided a brief introduction to the set of information-gathering worksheets that Tetra Tech will use to collect information from the municipalities. The worksheets will be discussed in greater detail at the Planning Partnership Kickoff Meeting.

Tetra Tech will conduct a set of community support meetings with the municipalities in mid-October 2019. Mr. Subbio will identify a week for the meeting that works for Tetra Tech staff and will provide the information to Mr. Baker.

Tetra Tech is developing a project website: <u>www.cattarauguscountyhmp.com</u>. Tetra Tech will maintain this website throughout the planning process. Included on the website will be links to a set of surveys to be completed by individuals and stakeholder agencies to provide information for the HMP update.

Phase 2 – Risk Assessment

Mr. Subbio sent Mr. Baker Tetra Tech's wish list of GIS data on July 5, 2019. Mr. Baker sent it to Mr. Holewinski during the meeting.

The following hazards will be profiled in the updated HMP:

| • | Floods (including dam failure) | • | Severe Storms (including tornados | • | Utility Interruption (focused on power outage and communication failure) |
|---|-----------------------------------|---|-----------------------------------|---|---|
| • | l andslide | • | Severe Winter Storms | • | Wildfire |

- Landslide So
 - Severe Winter Storms (including ice storms)
- Upon completion of the hazard profiles, Tetra Tech will review the risk assessment with the Partnership and the

Phase 3 – Mitigation Strategy

public.

The Steering Committee will set the goals and objectives for the HMP and will share them with the Partnership. Tetra Tech will use the information reported by the municipalities regarding their capabilities and the status of the mitigation actions from the 2013 version of the HMP to identify and prioritize mitigation actions for inclusion in the updated HMP.

Tetra Tech will compile the information from the worksheets, risk assessment, capability assessment, and mitigation actions into a jurisdictional annex for the County and each of its municipalities. The jurisdictional annexes detail the analysis and information of the HMP for the respective jurisdictions to make the document easier to use for local officials.

Phase 4 – Plan Maintenance

Tetra Tech will work with the Steering Committee to develop procedures for maintaining the HMP over the next 5 years. These procedures will be documented in the Plan Maintenance section of the HMP. This section will also describe the ways in which the HMP is integrated with other planning mechanisms, such as comprehensive and master plans, local regulations, etc.

Mitigation actions will be loaded into Tetra Tech's Plan Review Tool to allow for ongoing plan maintenance.



Phase 5 – Draft and Final Plans

Throughout the planning process, Tetra Tech will develop the HMP document. The main body will profile the County, explain the planning process, include the risk assessment and mitigation strategy, and discuss maintenance of the plan. Each jurisdiction will have its own annex in the HMP, which will provide information specific to that jurisdiction.

The draft plan will be shared with the Steering Committee for review and comment throughout the planning process. After making any required changes, Tetra Tech will post the HMP for public review. The public review period will be advertised and will last for 30 days. Tetra Tech will then conduct a public meeting with the Partnership to gather feedback on the plan draft and make any required changes.

Tetra Tech will then submit the draft for the State's formal review. NYS Division of Homeland Security and Emergency Services (DHSES) will review the draft. If changes are required, Tetra Tech will make the changes and resubmit the document to the State. After the State is satisfied with the draft, the State will forward it to Federal Emergency Management Agency (FEMA) Region II for review. FEMA Region II will review the draft within 45 days, and Tetra Tech will make any required changes upon receipt of review comments from FEMA. When FEMA is satisfied with the HMP, FEMA will grant the HMP "approvable pending adoption" status to indicate that it meets all requirements.

The County and participating jurisdictions will formally adopt the HMP by resolution. After adoption, each jurisdiction will receive a letter from FEMA stating that the HMP is formally approved.

Project Schedule Review

Mr. Subbio reviewed the project schedule. If the municipalities provide information in a timely manner and fully participate in the planning process, the draft HMP will be ready for Steering Committee review by the end of January 2020.

Next Steps

The following next steps were discussed at the meeting:

- Ms. Gennings will provide Tetra Tech the hazard events database, watershed plans, and the County Comprehensive Emergency Management Plan (CEMP) for incorporation into the HMP.
- The Planning Partnership Kickoff Meeting will be held from 6:00-8:00 p.m. on Thursday, September 19, 2019. Mr. Baker will identify a location.
- Tetra Tech will begin developing hazard profiles for the hazards identified.

The meeting adjourned at 12:10 p.m.















| Project Scope Review (Continued) | Project Scope Review (Continued) |
|---|---|
| Phase 2 – Risk Assessment | Phase 2 – Risk Assessment (Continued) |
| – Hazards of Concern (2013) | – HAZUS-MH Analysis |
| Dam Failure Severe Storms/ Wind Storm/ Hurricane Remnants | Flood – 1-percent and 0.2-percent annual chance floodplains |
| Floods Tornado | Wind – 100-year or 500-year MRP event |
| Ice Storms Wildfire | Quantitative Analysis for Geographic Hazards |
| Landslide Winter Storms | - Qualitative Analysis for Landslide Hazard |
| Combination of hazards | Review Risk Assessment with |
| Up to two additional hazards | Planning Partnership |
| | |









Next Steps

- Document Request
- GIS Data
- Planning Partnership Kickoff Meeting
- Risk Assessment Update

Questions?

Thank you for your time!

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CATTARAUGUS COUNTY HAZARD MITIGATION PLAN UPDATE Steering Committee Kickoff Meeting

Wednesday, July 24, 2019 | 10:00 a.m. - 12:00 p.m.

1. Introductions

- 2. Project Scope Review
 - a. Phase 1 Organize the Resources
 - b. Phase 2 Risk Assessment
 - c. Phase 3 Mitigation Strategy
 - d. Phase 4 Plan Maintenance
 - e. Phase 5 Draft and Final Plans
- 3. Project Schedule Review

4. Next Steps

- a. Document Request
- b. GIS Data
- c. Planning Partnership Kickoff Meeting
- d. Risk Assessment Update
- 5. Questions



Project Schedule

Subject to Change

| Task | Timeframe |
|------------------------------|--|
| | Planning Partnership Kickoff Meeting conducted in late August 2019 |
| Phase 1 - | Information gathering sessions conducted in mid-September 2019 |
| Organize the Resources | Public outreach conducted throughout the planning process |
| | Project Closeout Meeting conducted after the updated HMP receives "Approvable Pending Adoption" status |
| Phase 2 – Risk Assessment | Hazards profiled by early October 2019 |
| | Capabilities assessed by the end of December 2019 |
| Phase 3 – | Goals and objectives identified by end of October 2019 |
| Mitigation Strategy | Mitigation Strategy Workshop conducted in early November 2019 |
| | Jurisdictional annexes completed by mid-January 2020 |
| Phase 4 – | Procedures developed by the end of October 2019 |
| Plan Maintenance | ► BATool [™] program developed by end of January 2020 |
| | Plan development to begin at the beginning of the project |
| | Public review period from mid-January to mid-February 2020 |
| | Draft Plan Review Meeting conducted in mid-February 2020 |
| | Draft plan finalized and submitted to NYS DHSES at the end of February 2020 |
| Phase 5 – | NYS DHSES reviews draft plan by the middle of April 2020 |
| Draft and Final Plans | Update draft plan based on NYS DHSES comments and resubmit by mid-May 2020 |
| | NYS DHSES and FEMA Region II review updated draft plan through mid-July 2020 |
| | Plan receives "Approvable Pending Adoption" status by the end of July 2020 |

| | | | Page 1/2 |
|-----------------|-----------------------|------------------------------|--------------|
| | July 24, 2019: Record | of Attendance | |
| H | AZARD MITIGATION PL. | ANNING MEETING | |
| | START: 10:00 | WW | |
| | END: 12:10 | here | |
| NAME | COMPANY/DEPARTMENT | EMAIL | PHONE |
| CHNIS BAKEN | Carr Co. ESM | CJBORFN CCNTTLO. ON | 716-498-0657 |
| Tory Schois | Teta Tech | Jany, Sublic & tetrakech. Ga | 217-545-528 |
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| Meeting | Cattaraugus County Hazard Mitigation Plan (HMP) Planning Partnership Kickoff Meeting |
|-----------|---|
| Date | November 7, 2019 Time 5:15 – 7:05 p.m. |
| Location | Cattaraugus County Legislative Chambers, 303 Court Street, Little Valley, NY |
| | Naomi Gennings, National Incident Management System (NIMS) Coordinator, Cattaraugus County Emergency Services |
| | Crystal Abers, Director of Economic Development, Planning, and Tourism, Cattaraugus County Department of Economic Development, Planning, and Tourism |
| | Charles Davis, Supervisor, Town of Ashford |
| | Marcia Spencer, Clerk, Village of Delevan; and Supervisor, Town of Yorkshire |
| | Jeff VanDeCar, Budget Officer, Town of Hinsdale |
| | Fred Filock, Supervisor, Town of Leon |
| | Robert Keis, Supervisor, Town of Mansfield |
| | Lena Ruper, Deputy Town Clerk, Town of Napoli |
| | David Rupp, Highway Superintendent, Town of New Albion |
| | Sherry Rupp, Town Clerk, Town of New Albion |
| | Annette Parker, Supervisor, Town of Olean |
| Attendees | Thomas Povhe, Town of Persia |
| | John Walgus, Supervisor, Town of Persia |
| | Anthony Evans, Mayor, Village of Portville |
| | Dale Senn, Supervisor, Town of Randolph |
| | Tim Jackson, Supervisor, Town of Salamanca |
| | Christopher Lexer, Building Code Enforcement Officer, Town of Yorkshire |
| | Bob Miller, Superintendent, Ellicottville Central Schools |
| | David Miller, Olean General Hospital |
| | Ben Halsey, Superintendent, Pioneer Central School District |
| | Kevin Clapp, Planning Manager, Mitigation Programs, New York State Division of Homeland Security and Emergency Services (NYS DHSES) |
| | Lauren Ortiz, U.S. Army Corps of Engineers (USACE) |
| | Tony Subbio, Project Manager, Tetra Tech |

Purpose

The purpose of the Planning Partnership Kickoff Meeting was to initiate the planning process to update the Cattaraugus County HMP with the jurisdictions and other stakeholders that have an interest in the HMP. The meeting provided an opportunity for the Planning Partnership to meet Tetra Tech's project manager and to discuss the planning process.



Discussion Points

This section summarizes each discussion point addressed during the meeting.

Introductions

Ms. Gennings welcomed attendees and provided some brief background information on the HMP update process. Ms. Gennings also introduced Mr. Subbio, who facilitated the remainder of the meeting. Attendees introduced themselves and identified any particular areas of focus or concern they have for this planning process. The points of concern addressed during the initial meeting introductions are summarized below:

- Mr. Miller stated that the school's basement along Route 219 has flooded.
- Mr. Halsey stated that traffic at the school is a concern.
- The Town of Hinsdale has a few projects to include in the HMP.
- Landslides are a concern in the Town of New Albion on Route 353 through the Village of Cattaraugus.
- The Town of New Albion applied for a mitigation grant for four homes on Lovers Lane. The application is under review.
- The Town of Olean has implemented several Federal Emergency Management Agency (FEMA)funded mitigation projects. There are two cross culverts (bridges) that need to be upgraded.
- Mr. Walgus stated that flooding is a problem in the Town of Persia. The town has worked with the Village of Gowanda and the USACE on a diversion channel.
- There are five or six houses with repetitive flooding problems in the Town of Ashford.
- Mr. Miller stated that hospital staff members are concerned about accidents on the nearby railroad tracks and interstate highway.
- The Town of Yorkshire has received grant funding for property buyouts and demolition. The town applied for additional funding, but it was not awarded. Landslides are an issue along Creek Road. Some small bridges need to be replaced.

Quick Introduction to Hazard Mitigation

Mr. Subbio provided a brief introduction to the concept of hazard mitigation by defining types of mitigation activities and describing the FEMA Hazard Mitigation Assistance (HMA) grant program. In addition, Mr. Subbio provided a brief overview of federal and New York State (NYS) planning requirements for HMPs.

Project Scope Review

This section summarizes each phase of the project discussed at the kickoff meeting.

Phase 1: Organize the Resources

Mr. Subbio discussed the role of the Planning Partnership (the Partnership). He identified organizations included in the Partnership, such as County departments, local jurisdictions, schools, NYS departments, community groups, neighboring jurisdictions, and others. As members of the Partnership, each attendee



should work with stakeholders to provide and solicit information about the hazards that affect the County, actions that can be taken to mitigate the impact of those hazards, and the steps of the planning process.

Mr. Subbio reviewed the information collection worksheets for each jurisdiction to complete.

Mr. Subbio discussed stakeholder outreach that would be conducted during the planning process. A set of information-gathering meetings will be held in January 2020. These meetings will afford municipal officials and other stakeholders an opportunity to provide information and discuss possible solutions to the problems that hazards cause in their jurisdictions.

Tetra Tech developed a project website, <u>www.cattarauguscountyhmp.com</u>, that will host information on the plan, including planning process information and draft documents for review. Tetra Tech also developed simple surveys for stakeholder groups and members of the public to provide information on their knowledge of the hazards they face and actions that can be taken to mitigate impacts from those hazards. These surveys will be distributed by Ms. Gennings.

Two planning meetings will be held that will be open to the general public: one to review the results of the updated risk assessment, and one to review the draft plan.

Phase 2: Risk Assessment

The following hazards will be profiled in the updated HMP:

- Floods
- Severe Winter Storms
- Landslide Utility Interruption
- Severe Storms
 Wildfire

The 1-percent and 0.2-percent annual chance floods, and the 100-year and 500-year wind events, will be examined using FEMA's Hazards-U.S. (HAZUS) software. Quantitative analysis will be conducted for geographic hazards; qualitative analysis will be completed for other hazards. Upon completion of the hazard profiles, Tetra Tech will review the risk assessment with the Partnership and the public.

Phase 3: Mitigation Strategy

The Steering Committee will set the goals and objectives for the HMP and will share them with the Partnership. Tetra Tech will use the information reported by the municipalities regarding their capabilities and the status of the mitigation actions from the 2014 version of the HMP to identify and prioritize mitigation actions for inclusion in the updated HMP.

Tetra Tech and NYS DHSES planners will conduct a Mitigation Solutions Workshop to help identify actions to address problems and problem areas identified in the risk assessment and capabilities assessment.



Tetra Tech will compile the information collected from the worksheets, risk assessment, capability assessment, and mitigation actions into a jurisdictional annex for the County and each of its municipalities. The jurisdictional annexes detail the analyses conducted and information compiled in the HMP for the respective jurisdictions to make the document easier for local officials to use.

Phase 4: Plan Maintenance

The updated HMP will include procedures for updating the HMP over its 5-year lifespan. These procedures (and each jurisdictional annex) will describe the ways in which hazard mitigation is integrated into organizations' routine operations. Following FEMA approval of the HMP, Tetra Tech will load the mitigation actions into its BAToolSM Program to facilitate tracking the status of mitigation actions on a regular basis.

Phase 5: Draft and Final Plans

Throughout the planning process, Tetra Tech will develop the HMP document. The main body will profile the County, explain the planning process, include the risk assessment and mitigation strategy, and discuss maintenance of the plan. Each jurisdiction will have its own annex in the HMP, which will provide information specific to that jurisdiction.

The draft plan will be shared with the Steering Committee for review and comment throughout the planning process. After making any required changes, Tetra Tech will post the HMP for public review. The public review period will be advertised and will last for 30 days. Tetra Tech will then conduct a public meeting with the Partnership to gather feedback on the plan draft and make any required changes.

Tetra Tech will then submit the draft for the State's formal review. NYS DHSES will review the draft. If changes are required, Tetra Tech will make the changes and resubmit the document to the State. After the State is satisfied with the draft, the State will forward it to FEMA Region II for review. FEMA Region II will review the draft within 45 days, and Tetra Tech will make any required changes upon receipt of review comments from FEMA. When FEMA is satisfied with the HMP, FEMA will grant the HMP "approvable pending adoption" status to indicate that it meets all requirements.

The County and participating jurisdictions will formally adopt the HMP by resolution. After adoption, each jurisdiction will receive a letter from FEMA stating that the HMP is formally approved.

Project Schedule Review

Mr. Subbio reviewed the project schedule. If the municipalities provide information in a timely manner and fully participate in the planning process, the draft HMP will be ready for public review by the end of May 2020. The Steering Committee and Tetra Tech will strive to complete the plan in the time allotted.



Next Steps

The following next steps were discussed at the meeting:

- The county and municipalities will complete the information-gathering worksheets by December 6, 2019. Jurisdictions are encouraged to submit whatever they have completed by that time. Electronic versions of the handouts will be distributed via e-mail.
- Partnership members will forward any plans, regulations, or studies that may be relevant to hazard mitigation to Mr. Subbio.
- Tetra Tech will continue developing hazard profiles for the hazards analyzed in the HMP.
- The information-gathering sessions will be conducted in January 2020.

The meeting adjourned at 7:05 p.m.





Agenda

- Introductions
- Quick Intro to Hazard Mitigation

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- Planning Process
- Project Schedule Review
- Introduce Worksheets
- Next Steps
- Questions









Quick Intro to Hazard Mitigation (Cont.)

- New York State Additional Requirements
 - Jurisdictional teams
 - Assess critical facilities
 - Plan for displaced residents
 - Plan for evacuation needs and sheltering
 - Document past mitigation accomplishments
 - Include jurisdictional annexes
 - Develop mitigation actions
 - Identify funding sources
 - Plan for climate change

Quick Intro to Hazard Mitigation (Cont.)

Per FEMA's 2017 National Institute of Building Sciences report, mitigation saves \$\$\$! National Benefit-Cost Ratio Per Peril Federally Funded 6:1 **Overall Hazard Benefit-Cost Ratio** $\widehat{}$ **Riverine Flood** 7:1 6 **Hurricane Surge** 5:1 Wind 合 🐴 Earthquake Wildland-Urban Interface Fire () \sim











Project Scope Review (Continued)

- Phase 2 Risk Assessment
 - Hazards of Concern
 - Floods
 - Landslide
 - Severe Storms
 - Severe Winter StormsUtility Interruption
 - Wildfire











Next Steps

- Complete worksheets
- Provide reports and plans
- Update risk assessment
- Conduct information gathering sessions



Questions?

Thank you for your time!

 Contacts

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 cjbaker@cattco.org

 (716) 938-2240

 Image: Christopher Baker

 cjbaker@cattco.org

 (716) 938-2240

 Image: Christopher Baker

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 (717) 545-3580





CATTARAUGUS COUNTY HAZARD MITIGATION PLAN UPDATE Planning Partnership Kickoff Meeting

Thursday, November 7, 2019 | 5:00 – 7:00 p.m.

1. Introductions

- 2. Quick Intro to Hazard Mitigation
- 3. Project Scope Review
 - a. Phase 1 Organize the Resources
 - b. Phase 2 Risk Assessment
 - c. Phase 3 Mitigation Strategy
 - d. Phase 4 Plan Maintenance
 - e. Phase 5 Draft and Final Plans

4. Project Schedule Review

5. Next Steps

- a. Complete worksheets
- b. Provide reports and plans
- c. Update risk assessment
- d. Conduct information gathering sessions
- 6. Questions



Project Schedule

Subject to Change

| Task | Timeframe |
|------------------------------|--|
| | Planning Partnership Kickoff Meeting conducted November 7, 2019 |
| Dhaca 1 | Information gathering sessions conducted in mid-November 2019 |
| Organize the Resources | Public outreach conducted throughout the planning process |
| | Project Closeout Meeting conducted after the updated HMP receives "Approvable Pending Adoption" status |
| Phase 2 – Risk Assessment | Hazards profiled by mid-January 2020 |
| | Capabilities assessed by the end of January 2020 |
| Phase 3 – | Goals and objectives identified by mid-February 2020 |
| Mitigation Strategy | Mitigation Strategy Workshop conducted in late February 2020 |
| | Jurisdictional annexes completed by mid-April 2020 |
| Phase 4 – | Procedures developed by the end of January 2020 |
| Plan Maintenance | ► BATool sm program developed by end of April 2020 |
| | Plan development to begin at the beginning of the project |
| | Public review period from the end of April to the end of May 2020 |
| | Draft Plan Review Meeting conducted at the end of May 2020 |
| | Draft plan finalized and submitted to NYS DHSES middle of June 2020 |
| Phase 5 – | NYS DHSES reviews draft plan by the end of July 2020 |
| Draft and Final Plans | Update draft plan based on NYS DHSES comments and resubmit by mid- August 2020 |
| | NYS DHSES and FEMA Region II review updated draft plan through mid- October 2020 |
| | Plan receives "Approvable Pending Adoption" status by the end of October 2020 |



HazMit Planning Meeting Sign in Sheet

Start Time : 17:00 End Time: 19:05 Date: 11-7-2019



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|-------------|-------------|---------------|------------------------------------|-----------------------------------|
| First Name | Last Name | Cell Phone # | Agency/ Organization | Email |
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HazMit Planning Meeting Sign in Sheet

Date: 11-7-2019 Start Ti

Start Time: 17:00 End Time: 19:05



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| Cell Phone # | 716-307-6353 | 716-560-8964 | 716 244 1115 | 716-328 .576 | 716 397-3316 | 717-856-4290 | 716-513-9605 | | | | | |
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| First Name | 101 | Christopher | MARCIA | TWO DODGEN | DALE | /our | Naomi | | | | | |





January 15-17, 2020

CATTARAUGUS COUNTY MITIGATION PLAN UDATE

✤ Hazard Mitigation Plan

- \succ What is it really.
 - Self assessment of what hazards we have and what capabilities we have to address those hazards.
 - Repeat problems
 - Mitigation actions
 - Prioritize

✤ <u>Why?</u>

- > Stafford Act requires it- declared and mitigation
 - Allocated for Declared moving to Mitigation- 6%
 - Makes it difficult to get
 - Future grants being tied to

✤ Flooding

- ➤ What areas
- What can be done

✤ Projects completed

- > Do you have any Projects in the past you have done with FEMA
- Paperwork Showing it
- > Do you need us to look in our records

✤ Worksheets

➢ Who needs help



Hazardous Mitigation Plan January 15, 2020- Delevan



Time: 1:00pm-3:00pm

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Hazardous Mitigation Plan January 16, 2020-South Dayton



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Hazardous Mittigation Plan January 16, 2020-Little Valley



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Hazardous Mitigation Plan January 16, 2020-Little Valley



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Hazardous Mitigation Plan January 17, 2020-Hinsdale



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| Meeting | Cattaraugus County Hazard Mitigation Plan (HMP) Steering Committee Meeting | | | | | | | | | | |
|-----------|--|--------------------|---|--|--|--|--|--|--|--|--|
| Date | August 18, 2020 | 10:00 – 10:55 a.m. | | | | | | | | | |
| Location | Teleconference | Teleconference | | | | | | | | | |
| | Kim Merrill, Secreta Public Works (DPW) | ry to the C | ommissioner, Cattaraugus County Department of | | | | | | | | |
| | Mark C. Burr, Director, Engineering and Highway Divisions, Cattaraugus County DPW | | | | | | | | | | |
| Attendees | Naomi Gennings, National Incident Management System (NIMS) Coordinator, Cattaraugus County Emergency Services | | | | | | | | | | |
| Attendees | Corrina Cavallo, Deputy Chief of Mitigation Programs, New York State Division of Homeland Security and Emergency Services (NYS DHSES) – left the meeting at 10:20 a.m. | | | | | | | | | | |
| | Kevin Clapp, Plannir | ng Manage | r, Mitigation Programs, NYS DHSES | | | | | | | | |
| | Tony Subbio, Projec | t Manager | , Tetra Tech | | | | | | | | |

Purpose

The purpose of the meeting was to (1) review the status of the project with the Steering Committee, and (2) review the set of draft mitigation goals and objectives that were developed for the updated HMP.

Discussion Points

This section summarizes each discussion point addressed during the meeting.

Project Status

Mr. Subbio reported that all worksheets from all jurisdictions have been received. Tetra Tech's planners continue to follow up with municipal officials for any required information. Mr. Subbio reported that one of Tetra Tech's planners, Ms. Beth LeFevre, has resigned, and her communities will be served by Mr. Brian Kehoe, Tetra Tech's mitigation planner based in Rochester, New York. The following municipalities are affected by the change:

• Town of Otto

• Town of Red House

• City of Salamanca

- Town of Ashford
- Town of Carrollton
- Town of East Otto
- Town of Ellicottville
- Village of Ellicottville
- Village of Gowanda
- Town of Great Valley
- Town of Little Valley
- Village of Little Valley Town of Salamanca
- Town of Mansfield

The hazard analysis has been completed. The hazard profiles are being finalized; they will be complete in the next few days. Upon completion, the draft hazard profiles will undergo Tetra Tech's quality review process.



Jurisdictional annexes and mitigation actions are under development. Tetra Tech's planners are using the information provided by each jurisdiction and the results of the risk assessment to develop identify mitigation projects.

Ms. Merrill requested that Mr. Subbio establish a shared document whereby Tetra Tech's planners and county staff could see real-time updates to notes regarding municipal outreach.

Goals and Objectives

Mr. Subbio reviewed the document containing the goals and objectives from the 2014 HMP and the suggested set of goals and objectives for the updated plan. He reported that the risk assessment showed that critical facilities in hazard areas (primarily the floodplain) and stormwater management issues were still the largest issues in the county. Flood damage prevention ordinances are out of date and need to be updated to meet state law, and floodplain administrators need to be trained on the requirements of the National Flood Insurance Program (NFIP). In addition, over 2,200 structures are present in the floodplain but fewer than 500 flood insurance policies are in place. The suggested set of goals and objectives addresses these issues, and is simplified to apply to all hazards. The Steering Committee had the following comments on the suggested goals and objectives:

- Mr. Burr requested that a new objective to acquire or relocate structures at risk from landslides be added to Goal 1.
- There were no changes requested to Goal 2 or its objectives.
- Ms. Merrill requested that Objective 3.1 be updated to reflect that the county would provide opportunities for training local officials.
- Ms. Gennings requested that Objective 3.2 be updated to reflect that the county would continue to educate individuals. The county already engages in significant outreach to residents.

Mr. Subbio will update the suggested goals and objectives and provide the revised set to Ms. Merrill, who will share it with the rest of the Steering Committee for final review.

Schedule

Mr. Subbio reviewed the remaining tasks and the schedule for their completion. The Steering Committee made the following decisions:

- The Risk Assessment Review meeting will be conducted via webinar from 6:00-7:30 p.m. on September 3, 2020.
- The Steering Committee will decide if and how the Mitigation Strategy Workshop(s) will be conducted based on the participation of municipal officials on the webinar.
- If they occur, the Mitigation Strategy Workshop(s) would be held on September 17-18, 2020.
- Ms. Merrill suggested that the county could host municipal officials at the Mitigation Strategy Workshop(s) in person, while Tetra Tech's staff could participate remotely.

Tetra Tech's planners are still on track to have the HMP drafted by the beginning of October 2020.



Next Steps

The following next steps were discussed at the meeting:

- Mr. Subbio will revise the draft goals and objectives and provide them to Ms. Merrill for distribution to the Steering Committee.
- The Risk Assessment Review Meeting will be conducted via webinar on September 3, 2020.
- Ms. Merrill and Mr. Subbio will determined if and how the Mitigation Strategy Workshops will be held after the Risk Assessment Review Meeting.
- Mr. Subbio will develop a shared document for tracking outreach to municipal officials.

The meeting adjourned at 10:55 a.m.





CATTARAUGUS COUNTY HAZARD MITIGATION PLAN UPDATE Steering Committee Meeting

Tuesday, August 18, 2020 | 10:00 – 11:00 a.m.

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- 2. Project Status
- 3. Goals and Objectives
- 4. Schedule
- 5. Next Steps
 - a. Risk Assessment Review Meeting
 - b. Mitigation Action Development
 - c. Draft Completion
- 6. Questions





<u>Cattaraugus County Hazard Mitigation Plan</u> 2014 Hazard Mitigation Plan Goals and Objectives – For Reference

Winter Storms

Goal A1 Reduce health and safety risk to Cattaraugus County citizens in the event of future winter storm events.

Objectives:

- Educate citizens on the levels of snow winter storm warnings.
- Make citizens aware of safe alternate heating sources.
- Encourage families/individuals to have an emergency communications plan.
- Reduce health and safety risk to citizens regarding driving in winter conditions.
- **Goal A2** Reduce potential of infrastructure damages from future winter storm events.

Objectives:

- Implement an informational program to encourage local utility companies to harden or bury their transmission lines.
- Reduce risk to existing above ground utilities from trees that may be susceptible to damage during winter storm events.
- Make sure critical facilities have emergency communications plans and power backup plans.
- **Goal B1** Reduce loss of life and raise public awareness about flood hazards, flood safety, and flood damage protection measures.

Objectives:

- Periodically distribute flood hazard information to owners of flood-prone property and the general public. Information will include flood-prone areas (known locations of high water table), property owner responsibilities for streams, flood-proofing ideas, flood insurance, and flood safety measures.
- Develop and implement a public outreach and education program about stormwater management.
- Implement an educational program for local government with important flood fighting information.
- Make sure citizens understand floodplain maps and regulations and risks.
- Ensure that there is adequate emergency centers and that they are located in accessible areas.

Floods

Goal B2 Protect new and existing structures and infrastructure, as well as replace undersized and repeatedly damaged infrastructure.

Objectives:

• Ensure the risk is reduced for high flooding risk properties, especially repetitive loss properties.

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- See that Code Enforcement Officers receive periodic training to effectively enforce • existing floodplain development regulations.
- Identify, replace, and protect undersized or repeatedly damaged infrastructure.
- Goal B3

Ensure that streams, drainage ways, and drainage structures are maintained to minimize the potential for obstruction of flow.

Objectives:

- Develop and implement a strategy for stabilizing stream channels in locations where bank erosion threatens development.
- Develop and implement a strategy for maintenance of privately owned stormwater drainage systems.
- Goal B4 Clean Debris from creeks, waterways, and drainage structures

Objectives:

- Ensure that water collection and drainage in critical areas is minimized following flash • flooding events.
- Ensure current storm drainage systems can handle flash flooding events.
- Develop and implement a program for routine inspection and maintenance of streams, • roadside ditches, and drainage-ways to reduce the potential for flooding caused by debris obstructions.
- Remove debris laying in the creeks following tornados and severe storms.
- Goal B5 Identify/Acquire Repetitive Loss Properties

Objectives:

- Identify repetitively damaged structures.
- Seek funding to acquire repetitively damaged structures.
- Turn repetitively damaged properties into green space.

Severe Storms

Goal C1 Reduce loss of life and risk of damage to utility infrastructure in Cattaraugus County in the event of a severe storm event.

Objectives:

- Periodically distribute severe storm information to property owners and the general public. Information will include supplies to have on hand, emergency numbers, electrical wire safety, falling trees and limbs safety.
- Implement an educational program for local government with important severe storm • survival information.
- Severe scour occurs at bridges and culverts during severe storm events, explore • protection methods.
- Ensure utility lines are protected from severe storm related damage.
- Ensure falling trees or branches do not damage utility lines during a severe storm event. •
- Ensure that all residential and commercial building codes adopted throughout • Cattaraugus County reference the most current standards for wind uplift.

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• Encourage implementation of preventive measures for existing development to reduce the vulnerability to severe weather damage, such as the proper way to anchor mobile homes.

Ice Storms

Goal D1 Reduce loss of life and raise public awareness about ice storm events and how to respond.

Objectives:

- Educate the public as to downed utility hazards.
- Reduce health and safety risk to citizens regarding driving in winter conditions.
- Educate the public as to public announcements, warnings and closures.
- **Goal D2** Reduce loss of life and risk of damage to infrastructure in Cattaraugus County in the event of an ice storm event.

Objectives:

- Ensure utility lines are protected from ice storm related damage.
- Ensure falling trees during a severe storm event do not damage utility lines.
- Ensure improvement of emergency power and communication capabilities during an ice storm event.
- Investigate road reconfiguration in historically problematic areas.

Tornado

Goal E1 Reduce loss of life and safety risk to the community during the occurrence of a future tornado event.

Objectives:

- Educate the public to secure all loose items on decks, porches and in yards.
- Provide resident education regarding tornado protection and preparedness.
- Minimize the number of loose items that can become hazardous and dangerous during a tornado event.
- Give as much warning as possible when a Tornado threat is active.
- Educate Code Enforcement Officers on building and maintenance codes.
- **Goal E2** Reduce losses from tornado events to present and future structures in Cattaraugus County.

Objectives:

- Ensure that existing mobile homes and older buildings having the most potential for losses from tornado events are protected.
- Ensure that all Cattaraugus County and municipal building codes reflect current standards for anchoring against straight line and tornado winds.
- Clean Tornado debris from waterways after Tornado to prevent future flooding events.



Goal F1 Reduce health and safety risk to Cattaraugus County residents in the event of future wildfires.

Objectives:

- Make sure that residents are educated on hazards of wildfires, evacuation procedures, and open burning laws and penalties.
- Ensure that Fire Departments have improved capabilities for responding to and extinguishing wildfires.
- Ensure residents are aware of precautions to prevent spreading of fires.
- Ensure firefighters know where there are alternate sources of water.

Goal F2 Reduce threat to existing and future structures from wildfires.

Objectives:

- Ensure that high and moderate wildfire risk areas are identified.
- Ensure that critical facilities and number of residential properties in high and moderate wildfire risk areas are identified.
- Ensure that building codes include fire resistant precautions.
- Ensure that wildfire vulnerability assessments are done.

Landslides

Goal G1 Reduce the danger to the public and damage to private property/infrastructure in Cattaraugus County in the event of a landslide.

Objectives:

- Educate the public on what to look for and what to do when land starts to slide.
- Make sure the possibility of future damage to private homes is minimized.
- Make sure future damage to underground utilities and services, electric grid, natural gas, water and sewer lines, and communication networks are minimized.

Dam Failure

Goal H1 Reduce health and safety risk to Cattaraugus County residents in the event of future dam failures.

Objectives

- Ensuring that dams are properly maintained and meet applicable design standards.
- Ensure that there is an emergency plan in place.
- Ensure that there is an evacuation plan in place.
- Complete a Dam Risk Assessment for each site.
- Educate the public.
- Seek funding to complete inundation maps and update plans.



2020 Suggested Goals and Objectives

Goal 1: Protect life, property, and critical infrastructure from hazard impacts.

Objective 1.1 Retrofit critical infrastructure to protect against hazard impacts.
Objective 1.2 Enhance stormwater management infrastructure.
Objective 1.3 Ensure that critical facilities can continue to function during and after hazard impacts.
Objective 1.4 Acquire, retrofit, or relocate structures from flood-prone areas.
Objective 1.5 Encourage residents and business owners to insure their property against hazard impacts, including through flood insurance through the National Flood Insurance Program (NFIP).

Goal 2: Reduce the risk of hazards on life, property, and the environment.

- Objective 2.1 Develop and/or update local regulations based on current information and best practices.
- Objective 2.2 Maintain natural waterways and drainage systems to reduce the impacts of hazards.

Goal 3: Educate the public, officials, and other stakeholders about the hazards they face and what can be done to mitigate hazard impacts.

- Objective 3.1 Ensure that local officials attend current training on regulatory issues and best practices.
- Objective 3.2 Educate individuals throughout the County on the hazards they face and what property protection measures they can take.



MEETING NOTES

| Meeting | Cattaraugus County Hazard Mitigation Plan (HMP) Risk Assessment Review Meeting | | | | |
|-----------|---|--|--|--|--|
| Date | September 3, 2020 Time 6:00 – 7:20 p.m. | | | | |
| Location | Webinar | | | | |
| | Crystal Abers, Director of Economic Development, Planning & Tourism, Cattaraugus County Department of Economic Development, Planning & Tourism | | | | |
| | Kathleen M. Ellis, Commissioner, Cattaraugus County Department of Public Works | | | | |
| | Kimberly Merrill, Secretary to the Commissioner, Cattaraugus County Department of Public Works | | | | |
| | Naomi Gennings, National Incident Management System (NIMS) Coordinator/Assistant to the Director, Cattaraugus County Emergency Services | | | | |
| | Julie Carr, Personnel Director, Cattaraugus County Human Resources Department | | | | |
| | Craig Gardner, Safety Engineer Trainee, Cattaraugus County Human Resources | | | | |
| | Kirk Snyder, Systems Analyst Programmer, Cattaraugus County Information Services | | | | |
| | John Helgager, Code Enforcement Officer, Village of Allegany | | | | |
| | John A Pfeffer, Supervisor, Town of Ashford | | | | |
| | Bruce Tanner, Public, Town of Carrollton | | | | |
| | Tina Hyde, Supervisor, Town of Coldspring | | | | |
| | Matthew McAndrew, Supervisor, Town of Ellicottville | | | | |
| | Bridget Holmes, Clerk, Town of Farmersville | | | | |
| Attendees | Donna Vickman, Councilwoman, Town of Farmersville | | | | |
| | Robert Breton, Supervisor, Town of Franklinville | | | | |
| | Lorrie Fisher, Deputy Supervisor, Town of Franklinville | | | | |
| | Carol Sheibley, Deputy Mayor, Village of Gowanda | | | | |
| | Jeff VanDeCar, Supervisor, Town of Hinsdale | | | | |
| | Jeffrey Goodyear, Supervisor, Town of Ischua | | | | |
| | Fred Filock, Supervisor, Town of Leon | | | | |
| | Susan Koch, Clerk, Town of Little Valley | | | | |
| | James Bowen, Mayor, Village of Little Valley | | | | |
| | Robert Young, Public Work Superintendent, Village of Little Valley | | | | |
| | Robert Keis, Supervisor, Town of Mansfield | | | | |
| | Lena Ruper, Deputy Town Clerk/Registrar/Tax Collector, Town of Napoli | | | | |
| | Patrick Murphy, Supervisor, Town of New Albion | | | | |
| | David Rupp, Highway Superintendent, Town of New Albion | | | | |
| | Tim Richardson, Fire Chief, City of Olean | | | | |
| | Bob Ring, Public Works Director, City of Olean | | | | |



MEETING NOTES

| Robert Barber, Highway Superintendent, Town of Otto |
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| Paul Stang, Councilman, Town of Otto |
| John Walgus, Supervisor, Town of Persia |
| Tony Evans, Mayor, Village of Portville |
| Dale Senn, Supervisor, Town of Randolph |
| Heather Lamberson, Supervisor, Town of South Valley |
| Mary Ruth, Town Clerk, Town of South Valley |
| Kevin Clapp, Planning Manager, Mitigation Programs, New York State Division of Homeland Security and Emergency Services (NYS DHSES) |
| Tony Subbio, Project Manager, Tetra Tech, Inc. (Tetra Tech) |

Purpose

The purpose of the Risk Assessment Review Meeting was to review the results of the updated risk assessment analysis performed for the HMP update by Tetra Tech, collect feedback on the analysis, and identify problem areas or issues for each of the hazards identified.

Discussion Points

This section summarizes each discussion point addressed during the meeting.

Review Risk Assessment

Mr. Subbio reviewed the results of Tetra Tech's risk assessment. Feedback on the analysis of each hazard is provided below.

- Flood
 - Attendees had no feedback on the flood analysis.
- Landslide
 - Ms. Merrill stated that County Route 76 (Lover's Lane) is on unstable soil.
 - Mr. Rupp asked if the landslide hazard profile examined geology as well as slope. He stated that Route 353 is sliding. Water trapped in clay soil is pushing the ground, causing landslides.
- Severe Storms
 - Attendees had no feedback on the severe storms analysis.
- Severe Winter Storms
 - \circ $\;$ Attendees had no feedback on the severe winter storms analysis.
- Utility Interruption
 - o Attendees had no feedback on the utility interruption analysis.
- Wildfire
 - \circ $\;$ Burn bans are reducing the number of brush fires occurring in the county.
 - Wildfires that do occur are typically less than 0.25 acre in size.





Review Risk Ranking

Mr. Subbio discussed each hazard's risk ranking scores, which are based on Tetra Tech's current ranking methodology. Wildfires, severe storms, and severe winter storms were ranked as the highest-priority hazards, based on fact that (1) a sizable portion of the county is located within the wildland-urban interface, and (2) the entire county is vulnerable to severe storms and severe winter storms. Attendees agreed that the county is most concerned with and vulnerable to flooding and landslides. The Steering Committee will review the ranking methodology and make appropriate changes.

Next Steps

The following next steps were discussed at the meeting:

- The Steering Committee will review the risk ranking methodology.
- Municipal officials will work with their assigned planners to identify problem areas and problem statements.
- Tetra Tech's planners and municipal officials will develop mitigation actions for each jurisdiction.
- The draft of the HMP will be completed and submitted to NYS DHSES in early October.

The webinar adjourned at 7:20 p.m.









































| Hazard of Concern | Prob. | Pop. | Built Env. | Econ. | Adapt Cap. | Future Cond. | Risk Ranking Value |
|----------------------|-------|------|---------------|-------|---------------|-----------------|--------------------------|
| Wildfire | 2 | 9 | 6 | 3 | 2 | 3 | 6.9 |
| Severe Storms | 3 | 9 | 2 | 1 | 1 | 2 | 5.0 |
| Severe Winter Storms | 3 | 9 | 2 | 1 | 1 | 2 | 5.0 |
| Utility Interruption | 3 | 6 | 2 | 2 | 2 | 2 | 4.7 |
| Floods | 3 | 3 | 2 | 1 | 2 | 3 | 3.6 |
| Landslides | 1 | 3 | 2 | 1 | 2 | 1 | 2.8 |
| | | | | | | | |





| | Kimberly Merrill <u>kamerrill@cattco.org</u> (716) 938-9121 ext. 2480 | |
|---|---|---|
| Ŧ | Tony Subbio tony.subbio@tetratech.com (717) 839-5654 | |
| | | ٢ |





CATTARAUGUS COUNTY HAZARD MITIGATION PLAN (HMP) UPDATE Risk Assessment Review Meeting

Thursday, September 3, 2020 | 6:00 – 7:30 p.m.

1. Welcome

2. Review Risk Assessment

- a. Flood
- b. Landslide
- c. Severe Storms
- d. Severe Winter Storms
- e. Utility Interruption
- f. Wildfire

3. Review Risk Ranking

4. Next Steps

- a. Identify problems and problem areas
- b. Develop mitigation actions
- c. Submit the HMP for review
- 5. Questions



<u>Cattaraugus County</u> <u>Hazard Mitigation Plan (HMP)</u>

Risk Ranking Score – Countywide

| Hazard of Concern | Prob. | Pop. | Built Env. | Econ. | Adapt Cap. | Future Cond. | Risk Ranking Value |
|----------------------|-------|------|---------------|-------|---------------|-----------------|--------------------------|
| Wildfire | 2 | 9 | 6 | 3 | 2 | 3 | 6.9 |
| Severe Storms | 3 | 9 | 2 | 1 | 1 | 2 | 5.0 |
| Severe Winter Storms | 3 | 9 | 2 | 1 | 1 | 2 | 5.0 |
| Utility Interruption | 3 | 6 | 2 | 2 | 2 | 2 | 4.7 |
| Floods | 3 | 3 | 2 | 1 | 2 | 3 | 3.6 |
| Landslides | 1 | 3 | 2 | 1 | 2 | 1 | 2.8 |

Notes:

Prob. = Probability

| Рор. | = | Impact on the Population (higher numbers reflect a higher percentage of the population |
|------|---|--|
| | | being at risk) |

| Built | = | Impact on the built environment (higher numbers reflect a higher percentage of |
|-------|---|--|
| Env. | | the property value in the county being at risk) |

- Econ. = Impact on the Economy (higher numbers reflect higher loss estimates)
- Adapt. = Adaptive Capacity (higher numbers reflect less capability to address hazard impacts) Cap.
- Future =Impact of future conditions on the hazard (higher numbers indicate higher future riskCond.from the hazard

Cattaraugus County HMP Risk Ranking



To update the actions and initiatives for your mitigation strategy, please consider the questions below. Suggested actions will be developed based on an analysis of Cattaraugus County's needs and capabilities, or will be carried over from the previous hazard mitigation plan (HMP) update based on the responses given in Worksheet 4. Some questions may not apply to your municipality.

- 1. Which properties in your jurisdiction are most at-risk to flood events and would have the greatest need for retrofitting or other flood hazard mitigation measures? Specific property addresses do not need to be listed (to ensure residential privacy), but names of streets or neighborhoods can be included.
- 2. What public outreach and education actions would you be most interested in implementing? Circle all that apply.
 - A. Provide general hazard risk preparedness and mitigation and related National Flood Insurance Program (NFIP) information in regular newsletters and mailings.
 - B. Provide hazard risk and risk reduction information through social media channels and email blast systems.
 - C. Post flyers and other readily available NFIP informational materials at the municipal hall or distribute at regular civic meetings.
 - D. Develop and maintain a hazard risk management webpage on the municipal website where information and mapping can be posted.
 - E. Encourage private business owners and managers of infrastructure that provide critical services in post-disaster situations to develop Continuity of Operations Plans or Business Continuity Plans.
 - F. Enhance public outreach to residents in NFIP floodplain areas, which may include distributing periodic articles and including handouts in the annual newsletter, to inform them of annual grant opportunities.
 - G. Other:
- 3. Which critical facilities still need or would benefit from a backup generator or redundant power supply?



4. Which critical facilities have been damaged by flood events and require floodproofing or relocation?

5. Which roads would benefit from mitigation or structural projects to reduce vulnerability to flood or stormwater incidents? Also, please specify the types of projects that would most help a high-risk road (for example, new/expanded culvert, road elevation, repaving, etc.), if this information is available.

6. What areas in the municipality are still in need of stormwater rehabilitation and upgrades?

7. What other mitigation projects are you interested in or is your municipality targeting for completion during the next 5 years? Please provide as much detail as possible.



2020 MULTIJURISDICTIONAL HAZARD MITIGATION PLAN

RISK ASSESSMENT REVIEW MEETING SIGN-IN DEPARTMENT OF PUBLIC WORKS

Thursday, September 3, 2020 :30 Start time: _ End time: **MUNICIPALITY EMAIL** PHONE NAME 928.2480 Kin news 0 Kamen MW 20mi Princicla nar of 71 S 532 3494 08 MG 93 hoo. con 0 GOL. C as de 716 0 an

2020 MULTIJURISDICTIONAL HAZARD MITIGATION PLAN

RISK ASSESSMENT REVIEW MEETING SIGN-IN LITTLE VALLEY COUNTY CENTER – LEGISLATIVE CHAMBERS

Thursday, September 3, 2020 Start time: 6:05 pm End time: 7:30 pm PHONE MUNICIPALITY **EMAIL** NAME 938-6668 716-4765730 SFIELD Carr Cattarangus Count liè arracatico.org 7169382241 938-2210 der Falcalicoida CUT COUNT-ASHFORD CUDE RUISOR 8 83 ć б MAI 10 torel ELICATVILLE 2100 9 G 397 3316 an











| TE TETRA TECH | |
|---------------------|--|
| Mitigation Strategy | |
| | |
| | |



Mitigation Works!

The nation saves \$6 for every \$1 spent through mitigation grants funded via select federal agencies.

| *BCR numbers in this study have been rounded | Beyond Code Requirements | Federally Funded | |
|--|-----------------------------|---------------------|--|
| Overall Hazard Benefit-Cost Ratio | \$4:1 | \$6:1 | |
| 🟦 Riverine Flood | \$5:1 | \$7:1 | |
| 🟠 Hurricane Surge | \$7:1 | | |
| 濸 Wind | \$5:1 | \$5:1 | |
| 🚳 Earthquake | \$4:1 | \$3:1 | |
| Wildland-Urban Interface Fire | \$4:1 | \$3:1 | |
| | | | |

4

2020 HMP Hazards of Concern

• Flood

7

- Landslide
- Severe Storm
- Severe Winter Storm
- Utility Failure
- Wildfire

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8

NYS Requirements for Mitigation Strategy Update Need to develop at least 2 Action Worksheets Repetitive and Severe Repetitive Loss Properties - need an action with specific details (street or neighborhood names) Identify critical facilities, assess vulnerabilities and ensure protection to the 500-year flood event or worst-case scenario If already protected, we must note how If not protected, a mitigation action must be developed Plan for Climate Change and propose actions to address









What are we focusing on for our mitigation strategy?

- Stronger connection between the risk assessment and mitigation strategy
- More specific actions
 - Specific projects, in specific locations, in a specific timeframe
- Diverse actions
 - Focus on highest ranked hazards but also look to address other hazards
 - Include a variety in the types of actions

13



14

Update the Mitigation Strategy

- Review our Goals and Objectives
- Start with Problems (many identified on your Problem Statement Worksheets)
 - Areas that have been impacted
 - Recurring issues
 - Critical/Lifeline facilities in the floodplain
 - RL/SRL properties need mitigating
 - Lack of identified locations for temporary housing and permanent housing (outside of the floodplain)

15





16



Improved problem and action

- Problem: Town Hall lacks a backup power source. The Town Hall houses the Emergency Operations Center and also can serve as a backup shelter. Lack of power results in a breakdown of continuity of operations and prevents the Town Hall from providing critical services during a hazard event.
- Solution: The Town Engineer will work with the Office of Emergency Management to research and purchase the appropriately sized backup generator for the Town Hall. The DPW will install the backup generator and necessary electrical components and will be responsible for testing and upkeep of the generator after installation.

19

 $\rangle\rangle\rangle\rangle$







EVEN MORE Improved problem and action

20

 $\rangle\rangle\rangle\rangle$

Improved problem and action Problem: High hazard trees pose a risk for falling on private property and utilities during storm events. The town does not have a program in place to monitor and inspect trees and identify ones that need to be trimmed or removed. Solution: The town will develop a vegetation management program. This program will include routine inspections of trees in the municipal rights-of-way, identify trees that are in need of trimming or removal, and conduct the trimming and removal. This will help reduce tree damage, road closures, and power outages during severe weather events. A majority of the tree work will be conducted by the Highway Department; however, outside contractors might be used if removal is beyond the Department's capability.













Action Worksheets

- Each jurisdiction must develop at least 2 Action Worksheets
- Should also develop additional Action Worksheets for projects you plan to apply for FEMA funding support for within the next 5 years
- Not every action requires an Action Worksheet to be developed but the same sort of information about those actions are still needed in the Proposed Actions table of the annex

28







Action Worksheet















39





38

Action Worksheet

Prioritization

- High, Medium, or Low
- Use the second page of AW to evaluate each action and assist in the determination of priority (to be discussed shortly)

40















Monday, September 21, 2020 | 2:00 – 4:00 p.m.

- 1. Welcome and Opening Remarks
- 2. Hazard Mitigation Review
- 3. Developing Mitigation Strategies
 - a. NYS Requirements
 - b. Areas of Focus
 - c. Types of Mitigation Actions
- 4. Making Previous Actions More Specific
- 5. Fill Out and Return Your Mitigation Development Worksheet
- 6. Proposed Action Tables
- 7. Action Worksheets
- 8. Questions
- 9. Next Steps







Monday, September 21, 2020 | 6:00 – 8:00 p.m.

- 1. Welcome and Opening Remarks
- 2. Hazard Mitigation Review
- 3. Developing Mitigation Strategies
 - a. NYS Requirements
 - b. Areas of Focus
 - c. Types of Mitigation Actions
- 4. Making Previous Actions More Specific
- 5. Fill Out and Return Your Mitigation Development Worksheet
- 6. Proposed Action Tables
- 7. Action Worksheets
- 8. Questions
- 9. Next Steps







Tuesday, September 22, 2020 | 8:00 - 10:00 a.m.

- 1. Welcome and Opening Remarks
- 2. Hazard Mitigation Review
- 3. Developing Mitigation Strategies
 - a. NYS Requirements
 - b. Areas of Focus
 - c. Types of Mitigation Actions
- 4. Making Previous Actions More Specific
- 5. Fill Out and Return Your Mitigation Development Worksheet
- 6. Proposed Action Tables
- 7. Action Worksheets
- 8. Questions
- 9. Next Steps







Wednesday, September 23, 2020 | 8:00 – 10:00 a.m.

- 1. Welcome and Opening Remarks
- 2. Hazard Mitigation Review
- 3. Developing Mitigation Strategies
 - a. NYS Requirements
 - b. Areas of Focus
 - c. Types of Mitigation Actions
- 4. Making Previous Actions More Specific
- 5. Fill Out and Return Your Mitigation Development Worksheet
- 6. Proposed Action Tables
- 7. Action Worksheets
- 8. Questions
- 9. Next Steps







Thursday, September 24, 2020 | 6:00 - 8:00 p.m.

- 1. Welcome and Opening Remarks
- 2. Hazard Mitigation Review
- 3. Developing Mitigation Strategies
 - a. NYS Requirements
 - b. Areas of Focus
 - c. Types of Mitigation Actions
- 4. Making Previous Actions More Specific
- 5. Fill Out and Return Your Mitigation Development Worksheet
- 6. Proposed Action Tables
- 7. Action Worksheets
- 8. Questions
- 9. Next Steps







Friday, September 25, 2020 | 8:00 – 10:00 a.m.

- 1. Welcome and Opening Remarks
- 2. Hazard Mitigation Review
- 3. Developing Mitigation Strategies
 - a. NYS Requirements
 - b. Areas of Focus
 - c. Types of Mitigation Actions
- 4. Making Previous Actions More Specific
- 5. Fill Out and Return Your Mitigation Development Worksheet
- 6. Proposed Action Tables
- 7. Action Worksheets
- 8. Questions
- 9. Next Steps



| FLOOD | | | | | |
|---|---|--|--|--|--|
| Personal Scale | Corporate Scale | Government Scale | | | |
| Manipulate the Hazard: Clear stormwater drains and culverts Reduce exposure to the hazard: Locate or re-locate outside of hazard area Institute low impact development techniques on property Reduce vulnerability to the hazard: Retrofit existing structures and utilities above Base Flood Elevation (BFE) Floodproof existing structures (wet- or dry floodproofing). Store hazardous materials above BFE or outside of floodprone areas Increase Capability Develop household mitigation plan, such as retrofit savings, communication capability with outside, 72-hr. self-sufficiency during and after an event Buy flood insurance | FLOOD Corporate Scale Manipulate the Hazard: Clear stormwater drains and culverts Reduce exposure to the hazard: Locate business critical facilities or functions outside hazard area Institute low impact development techniques on property Reduce vulnerability to the hazard: | Government Scale Manipulate the Hazard: Clear stormwater drains and culverts Dredging, levee construction, providing retention areas Structural flood control: levee's, dams, channelization, revetments. Construct regional stormwater control facilities Lead and develop a county-wide stream clearing strategy including the development of thresholds for response/action. Reduce exposure to the hazard: Locate/re-locate critical facilities outside of hazard area Acquire or relocate identified repetitive loss properties. Promote open space uses in identified high hazard areas via techniques such as: PUD's, easements, setbacks, greenways, sensitive area tracks. Adopt land development criteria such as PUD's, Density transfers, clustering | | | |
| | of Operations Plan (COOP) Solicit 'cost-sharing" through partnerships with private sector stakeholders on projects with multiple benefits. | clustering Institute low impact development techniques on property Acquire vacant land or promote | | | |

| FLOOD | | | | | | |
|----------------|---|--|--|--|--|--|
| Personal Scale | Corporate Scale | Government Scale | | | | |
| | Dam owner/operators should continue to be aware of and understand dam inspection and reporting requirements. Ensure that all dam EAP's are kept in compliance with NYSDEC Regulations. | watersheds to control increases in runoff Pass an ordinance to incorporate additional zoning classifications into flood zones within each municipality. Increase floodplain standards within municipal ordinances and include provisions for enforcing best practice standards by requiring a minimum freeboard of 2' to align with NY State Standards. Continue development application reviews by County Planning Board to reduce risky development practices. <i>Reduce vulnerability to the hazard:</i> Harden structures and infrastructure (wet and dry- floodproofing) Provide redundancy for critical functions and infrastructure Adopt appropriate regulatory standards such as cumulative substantial improvement/damage, freeboard, lower substantial damage threshold, compensatory storage. Stormwater management regulations and master planning. | | | | |

| | FLOOD | |
|----------------|-----------------|---|
| Personal Scale | Corporate Scale | Government Scale |
| Personal Scale | Corporate Scale | Government Scale Adopt "no-adverse impact" floodplain management policies that strive to not increase the flood risk on down-stream communities. Participate in the Community Rating System (CRS) Implement as-built regulatory requirements Implement site review ordinances/requirements Establish stream maintenance programs with stakeholders (e.g. Soil and Water Conservation District) - support county leads of such efforts Incorporate |
| | | Incorporate retrofitting/replacement of critical facilities and infrastructure in Capital Improvement Plans (CIPs) Promote the use of vegetation/plants as green erosion control measures to reduce localized flooding. Work with the SWCD and other groups to address removal of debris, log jams, etc. in flood vulnerable stream sections |

| | FLOOD | |
|----------------|--------------------------|---|
| Personal Scale | Corporate Scale | Government Scale |
| Personal Scale | FLOOD Corporate Scale | Government Scale Produce better hazard maps, and improve access to flood hazard mapping Capture/survey "high-water" marks during flood events. Provide technical information and guidance on appropriate mitigation options available to businesses and homeowners Enact tools to help manage development in hazard areas (stronger controls, tax incentives, information) Establish an additional layer of zoning within flood hazard areas Develop strategy to take advantage of post disaster opportunities Improve compliance with and enforcement of the NFIP Develop mitigation partnerships with regional stakeholders Join Community Rating System (CRS) program, or improve level of participation in CRS Develop and implement a public |
| | | information strategy for flood hazard awareness, flood insurance (NEIP) and mitigation |
| | | Maintain existing data as well as gather new data needed to define risks and vulnerability. |

| | FLOOD | |
|----------------|-----------------|--|
| Personal Scale | Corporate Scale | Government Scale |
| | | Create a building and elevation inventory of structures in the floodplain Identify flood prone areas that |
| | | may be in need of new flood studies |
| | | and educate owners of flood- prone properties of potential mitigation options (e.g. elevations, relocations) |
| | | Charge a hazard mitigation fee on all new permits to create a hazard mitigation funding source for initiatives or grant cost share requirements. |
| | | Integrate floodplain management policies into other planning mechanisms within the planning area. |
| | | Establish a Stormwater Utility to deal with urban drainage/flooding issues |
| | | Establish incentives to promote flood hazard mitigation of private property (e.g. permit fee waivers). |
| | | Adopt ordinances/standards for cumulative damages and/or improvements |
| | | Upgrade NFIP Floodplain ordinance, as well as other |
| | FLOOD | |
|----------------|-----------------|--|
| Personal Scale | Corporate Scale | Government Scale |
| Personal Scale | Corporate Scale | Government Scale ordinances to current or above current state and federal standards. Develop and adopt a COOP Join "Storm Ready" Program Participate in county and regional training programs Provide additional training/certification to NFIP floodplain administrators and code officials. Implement annual training to account for turnover of municipal officials. Maintain and enhance flood forecasting ability, including the establishment and maintenance of critical stream gages Explore grant funding opportunities and potential partnerships to help maintain existing gages and install additional gages to improve forecasting and flood warning ability. Promote awareness and participation in alert systems such as NYAlert Support and participate in regional flood management |
| | | efforts |

| | FLOOD | |
|----------------|-----------------|---|
| Personal Scale | Corporate Scale | Government Scale |
| Personal Scale | Corporate Scale | Support and implement hazard disclosure for the sale/re-sale of property in identified risk zones. Provide continued and enhanced training for emergency responders Establish a revolving "bank" or budget line item to fund grant application support Continue to review updated Flood Insurance Rate Maps to ensure accuracy as well as maintaining lines of communication with homeowners to make them aware of potential changes related to their property status. Provide trainings for FPA's on the NFIP/Floodplain Best Practices and also pursue CFM accreditation for municipal FPA's. Build and maintain relationships to develop regional watershed/floodplain mitigation solutions. Pursue grant funding opportunities to fund repairs of catchments and infrastructure on a proactive basis. |
| | | opportunities related to climate |

| FLOOD | | |
|----------------|-----------------|---------------------------|
| Personal Scale | Corporate Scale | Government Scale |
| | | change to fund mitigation |
| | | projects. |

| Landslide | | | |
|---|---|--|--|
| Personal Scale | Corporate Scale | Government Scale | |
| Manipulate the Hazard: Apply soil stabilization measures, such as planting soil stabilizing vegetation on steep slopes Reduce exposure to the hazard: None Reduce vulnerability to the hazard: None Increase Capability None | Manipulate the Hazard: None Reduce exposure to the hazard: None Reduce vulnerability to the hazard: None Increase Capability: None | Manipulate the Hazard: Implement reinforcement measures in high-risk areas Use debris flow measures that may reduce damage in sloping areas, such as stabilization, emergency dissipation, and flow control measures Apply soil stabilization measures, such as planting soil stabilizing vegetation on steep, publicly owned slopes Reduce exposure to the hazard: Consider hazard areas in land-use planning, zoning and development siting Acquire structures in highest hazard areas (demolish and convert to restricted open space) Relocation of Structures Open Space Preservation Create or increase setback limits on parcels near high-risk parcels Reduce vulnerability to the hazard: Consider hazard areas in land-use Mazard areas in land-use Stabilize vulnerable slopes near structures and infrastructure. Work with stakeholders such as USGS and SWCD to develop appropriate risk reduction strategies. | |

| Landslide | | |
|----------------|-----------------|---|
| Personal Scale | Corporate Scale | Government Scale |
| Personal Scale | Corporate Scale | Government Scale Install catch-fall nets for rocks at steep slopes near roadways Increase Capability: Increase understanding of hazard areas (e.g. Landslide Susceptibility Maps) - geotechnical surveys, LIDAR and mapping Assessing vegetation in wildfire-prone areas to prevent landslides after fires (e.g. encourage plants with strong root systems) Work with stakeholders such as USGS, NYS - Geological Survey |
| | | and SWCD to develop appropriate risk reduction strategies. Support and implement hazard disclosure for the sale/re-sale of property in identified risk zones Develop county-level programs to document slide events (landslide inventory), and maintain its currency |

| SEVERE STORMS/HURRICANE/NOR'EASTER | | |
|---|---|---|
| Personal Scale | Corporate Scale | Government Scale |
| Manipulate the Hazard: | Manipulate the Hazard: | Manipulate the Hazard: |
| o None | o None | o None |
| • Reduce exposure to the hazard: | Reduce exposure to the hazard: | Reduce exposure to the hazard: |
| o None | o None | o None |
| • Reduce vulnerability to the hazard: | • Reduce vulnerability to the hazard: | • Reduce vulnerability to the hazard: |
| Retrofit structures (improved | Relocate critical infrastructure, | Harden infrastructure such as |
| roofing, glazing, insulation, etc.) | such as power lines, underground | locating utilities underground. |
| Provide for redundant heat and | Reinforce or relocate critical | Trimming trees back from power |
| power | infrastructure such as powerlines | lines |
| Contact municipality or utilities | so that it meets performance | Designate and strengthen critical |
| to trim or remove trees that | expectations. | road sections and bridges. |
| could affect power lines | Increase Capability: | Adopt ordinances that regulate |
| Plant appropriate trees near | Contact municipality or utilities | the type and quantity of trees |
| home and power lines ("Right | to trim or remove trees that | planted near utility lines |
| tree, right place" National Arbor | could affect power lines | Relocate critical infrastructure, |
| Day Foundation Program. | Create redundancy (e.g. backup | such as power lines, underground |
| Increase Capability | generators) | Increase Capability: |
| Improve awareness of impending | Improve awareness of impending | Support programs such as "Tree |
| severe weather (e.g. joining | severe weather (e.g. joining | Watch" that proactively manage |
| NYAlert, obtain a NOAA weather | NYAlert, obtain a NOAA weather | problem areas by use of selective |
| radio) | radio) | removal of hazardous trees, tree |
| Promote 72-hour self-sufficiency | Develop a Continuity of | replacement, etc. |
| Provide for redundant heat and | Operations Plan (COOP) | Enforce building codes |
| power | Monitor impending storm events | Increase communication |
| | so that you can release | alternatives |
| | employees in such a manner as | Modify land use and |
| | to not negatively impact | environmental regulations to |
| | emergency response | support vegetation management |
| | personnel/services. | activities that improve reliability |
| | | in utility corridors. |
| | | Modify landscape and other |
| | | ordinances to encourage |

| SEVERE STORMS/HURRICANE/NOR'EASTER | | | |
|------------------------------------|-----------------|---|-------------------------------------|
| Personal Scale | Corporate Scale | | Government Scale |
| | | | appropriate planting near |
| | | | overhead power, cable, and |
| | | | phone lines |
| | | 0 | Promote awareness and |
| | | | participation in alert systems |
| | | | such as NYAlert |
| | | 0 | Provide NOAA weather radios to |
| | | | the public |
| | | 0 | Create/Enhance "mutual ald" |
| | | | emergencies |
| | | 0 | Create/identify evacuation routes |
| | | | to be utilized during severe storm |
| | | | events. |
| | | 0 | Develop debris management |
| | | | plans. |
| | | 0 | Join "Storm-Ready" program |
| | | 0 | Provide early warning of |
| | | | impending severe storm events |
| | | | to identified critical or essential |
| | | | facilities. This would include |
| | | | facilities such as large |
| | | | employments centers, schools, |
| | | | hospitals |
| | | 0 | Promote emergency power |
| | | 0 | supplies to private property. |
| | | 0 | communications facilities and |
| | | | services |
| | | 0 | Recruit additional emergency |
| | | Ũ | personnel or use mutual aid |
| | | | agreements |

| SEVERE STORMS/HURRICANE/NOR'EASTER | | | |
|------------------------------------|-----------------|---|--|
| Personal Scale | Corporate Scale | Government Scale | |
| | | Increase sheltering capabilities | |
| | | Increase capability to respond to | |
| | | power outages and downed | |
| | | power lines. Establish | |
| | | partnerships with utility | |
| | | providers through pro-active | |
| | | planning. | |

| SEVERE WINTER STORMS | | |
|---|--|--|
| Personal Scale | Corporate Scale | Government Scale |
| Manipulate the Hazard: | • Manipulate the Hazard: | • Manipulate the Hazard: |
| o None | o None | o None |
| • Reduce exposure to the hazard: | • Reduce exposure to the hazard: | • Reduce exposure to the hazard: |
| Plant appropriate trees near | o None | o None |
| home and power lines ("Right | • Reduce vulnerability to the hazard: | • Reduce vulnerability to the hazard: |
| tree, right place" National Arbor | • Relocate critical infrastructure, | • Harden infrastructure such as |
| Day Foundation) | such as power lines, underground | locating utilities underground |
| • Reduce vulnerability to the hazard: | Reinforce or relocate critical | where appropriate. |
| Insulate House to provide greater | infrastructure such as powerlines | • Trimming trees back from power |
| thermal efficiency and reduce | so that it meets performance | lines |
| heat loss. | expectations. | Designate snow routes and |
| Provide redundant heat and | Install tree wire | strengthen critical road sections |
| power | • Increase Capability: | and bridges. |
| Insulate Structure | Trim or remove trees that could | Adopt codes and regulations that |
| Ensure natural gas input/release | affect power lines | address the issues of parking of |
| valves do not get covered in | Create redundancy in utilities and | vehicles along roadways during |
| snow | communications | severe weather events. |
| Increase Capability | Develop a Continuity of | Develop or enhance the |
| Trim or remove trees that could | Operations Plan (COOP) to | capacity/capability of stormwater |
| affect power lines | address operations before, | conveyance systems. |
| Prepare emergency food and | during and after coastal storm | Provide backup power sources at |
| supplies to be self-sufficient for | events. | vital critical facilities. |
| at least 72 hours in the event of a | Utilize weather radios at the | Increase Capability: |
| severe winter storm. | work place to keep your | Support programs that |
| Be aware of inclement weather | employees aware of severe | proactively manage problem |
| conditions and move your | weather conditions. | areas by use of selective removal |
| vehicles off of the street as | | of hazardous trees, tree |
| severe weather systems | | replacement, etc. |
| approach. | | Establish and enforce building |
| Retrofit structures | | codes that require all roofs to |
| | | withstand snow loads |

| SEVERE WINTER STORMS | | |
|----------------------|---|--|
| Personal Scale | Corporate Scale | Government Scale |
| Personal Scale | SEVERE WINTER STORMS Corporate Scale | Government ScaleDevelop/Improve/Enforce building Codes in Hazard AreasIncrease communication alternativesModify land use and environmental regulations to |
| | | dissemination of warning amongst those agencies within the planning are with the highest |
| | | degree of capability. |

| SEVERE WINTER STORMS | | |
|----------------------|-----------------|---|
| Personal Scale | Corporate Scale | Government Scale |
| | | Encourage local ordinances for planting tree near lines and join Tree City USA. |
| | | Increase tree management programs. |
| | | Join the Community Rating System |
| | | Join "Storm-Ready" |
| | | Retrofit critical structures and promote hazard resistant construction |
| | | Keep open communications and education of hazards for mobile home communities |
| | | Retrofit above-ground utilities to underground facilities if appropriate |
| | | • Create a salt reserve or research |
| | | alternates to stretch salt reserve. |
| | | Provide better debris logistics and removal. |
| | | Provide better communication systems and back-up communication systems to inform public of bacards and to |
| | | communicate during the hazard event. |

| Utility Failure | | | |
|---|--|---|--|
| Personal Scale | Corporate Scale | Government Scale | |
| Manipulate the Hazard: None Reduce exposure to the hazard: Plant appropriate trees near home and power lines ("Right tree, right place" National Arbor Day Foundation) Reduce vulnerability to the hazard: Insulate House to provide greater thermal efficiency and reduce heat loss. Provide redundant heat and power Insulate Structure Ensure natural gas input/release valves do not get covered in snow Increase Capability Trim or remove trees that could affect power lines Prepare emergency food and | Manipulate the Hazard: None Reduce exposure to the hazard: None Reduce vulnerability to the hazard: Relocate critical infrastructure, such as power lines, underground Reinforce or relocate critical infrastructure such as powerlines so that it meets performance expectations. Install tree wire Increase Capability: Trim or remove trees that could affect power lines Create redundancy in utilities and communications | Manipulate the Hazard: None Reduce exposure to the hazard: None Reduce vulnerability to the hazard: | |
| supplies to be self-sufficient for at least 72 hours | | Modify land use and environmental regulations to support vegetation management activities that improve reliability in utility corridors. Modify landscape and other ordinances to encourage appropriate planting near overhead power, cable, and | |

phone lines
 Provide weather radios to vulnerable populations

| Utility Failure | | |
|-----------------|-----------------|---|
| Personal Scale | Corporate Scale | Government Scale |
| | | Encourage local ordinances for planting tree near lines and join Tree City USA. Increase tree management programs. Join "Storm-Ready" Retrofit above-ground utilities to underground facilities if appropriate Provide better communication systems and back-up communication systems to inform public of hazards and to communicate during the hazard event. |

| WILDFIRE | | | |
|--|---|---|--|
| Personal Scale | Corporate Scale | Government Scale | |
| Manipulate the Hazard: Clear potential fuels on property; dry, overgrown underbrush; diseased trees Reduce exposure to the hazard: Clean and maintain defensible space around structures Locate outside hazard area Mow regularly Reduce vulnerability to the hazard: Create and maintain defensible space around structures, provide water on site. Use fire-retardant building materials Create defensible spaces around your home. Increase Capability Employ Firewise techniques to safeguard your home Identify alternative water supply points proximate to your home such as swimming pools, lakes, streams Support your local fire department Be aware of weather conditions that support/enhance the probability of wildfires | Manipulate the Hazard: None Reduce exposure to the hazard: Reduce vulnerability to the hazard: Create and maintain defensible space around structure and infrastructure and provide water onsite Use fire-retardant building materials Provide stored water to be utilized for fire fighting with appropriate fire department connections at facilities not equipped with fire hydrants or inadequate fire hydrant spacing Increase Capability: Support Firewise community initiatives | Manipulate the Hazard: None Reduce exposure to the hazard: Clear fuels (dry underbrush, diseased trees) on land that can trigger and maintain wildfires Implement Best Management Practices on public lands Reduce vulnerability to the hazard: Create and maintain defensible space around structure and infrastructure Higher regulatory standards Establish water main supply and hydrants in unhydranted areas Decrease hydrant spacing Purchase Increase Capability: More public outreach and education efforts including an active "Firewise" program Identify fire response and alternative evacuation routes Seek alternative water supplies in urban wildland interface areas. Become a "Firewise" community Increase capability to fight wildfires utilizing equipment that can support wildfire fighting such as: tankers, engines with "pump-and-run" capabilities, dump tanks for tanker shuttle operations. | |

| WILDFIRE | | |
|----------|--|---|
| | | Develop/implement wildfire |
| | | management plans. |
| | | Establish Mutual Aid Agreements |
| | | with the Tender Task Force |
| | | Develop a Water Supply Plan |





Please work with your municipal planning team and complete this worksheet. Please send electronic Word version by September 25, 2020 to: Tony Subbio, Tetra Tech Phone: (717)-839-5654 E-mail: tony.subbio@tetratech.com

Municipality: Name and Title of Individual Completing Worksheet*:

Check in with your municipal planning team: Municipal officials or residents with historical knowledge including OEM Coordinator, Police, Fire, DPW, building inspector, municipal engineer, etc.

What is your biggest hazard concern? (flooding, stormwater flooding, falling trees, power loss, etc.)

Critical Facilities - Backup Power

Please list critical facilities that require backup power. If you have specifics (size of the generator, potential cost, etc.), please provide that information as well.

Critical Facilities - Flood Protection

If your emailed problem statement list included critical facilities that were located in the special flood hazard area (100-year floodplain), list them here and identify if they are protected from the 0.2% (500-year) flood or what could be done to protect them (relocate, elevate, floodproof, etc.). If you are unsure of their protections, assume they need additional protections.







Culverts - Undersized/In Need of Upgrade

Please indicate the location (Street? Stream/river?) of any culverts in your community that are undersized or are damaged from past flood events.

Flood Protection – Elevation or Buyout

Please identify homes or neighborhoods that would benefit from elevation or buyout to prevent future flood damages.

Infrastructure Protection

Please identify roads and other infrastructure that needs protection from flooding, storms, etc. Indicate what the protection measures are (elevate roadway, harden infrastructure, etc.)







Other Projects

Please identify other projects that you have in mind after reviewing your problem statements, past actions, risk assessment results, and mitigation catalog.



| Action Worksheet | | | | | |
|---|---|-----------|-------------------------|---|---------------------------------|
| Project Name: | | | | | |
| Project Number: | | | | | |
| Risk / Vulnerability | | | | | |
| Hazard(s) of Concern: | | | | | |
| Description of the Problem: | | | | | |
| Action or Project Intended | for Implementation | | | | |
| Description of the Solution: | | | | | |
| Is this project related to a | Critical Facility? | Yes | | No 🗌 | |
| Is this project related to a located within the Special | Critical Facility Flood Hazard Area? | Yes | | No | |
| (If yes, this project must intend | to protect to the 500-year | flood eve | ent or t | he actual worse case damage | scenario, whichever is greater) |
| Level of Protection: | | | Estin (loss | nated Benefits ses avoided): | |
| Useful Life: | | | Goal | s Met: | |
| Estimated Cost: | | | Mitigation Action Type: | | |
| Plan for Implementation | | | | | |
| Prioritization: | | | Desi Imp | red Timeframe for lementation: | |
| Estimated Time Required for Project Implementation: | | | Pote | ential Funding Sources: | |
| Responsible Organization: | | | Loca Mec Imp | ll Planning hanisms to be Used in lementation if any: | |
| Three Alternatives Considered (including No Action) | | | | | |
| | Action | | | Estimated Cost | Evaluation |
| Alternatives: | No Action | | | \$0 | Problem continues. |
| | | | | | |
| Progress Report (for plan | maintenance) | | | | |
| Date of Status Report: | | | | | |
| Report of Progress: | | | | | |
| Update Evaluation of the Problem and/or Solution: | | | | | |

| Evaluation and Prioritization | | |
|-------------------------------|----------------------------|--|
| Project Name: | | |
| Project Number: | | |
| Criteria | Numeric Rank (-1, 0, 1) | Provide brief rationale for numeric rank when appropriate |
| Life Safety | | |
| Property Protection | | |
| Cost-Effectiveness | | |
| Technical | | |
| Political | | |
| Legal | | |
| Fiscal | | |
| Environmental | | |
| Social | | |
| Administrative | | |
| Multi-Hazard | | |
| Timeline | | |
| Agency Champion | | |
| Other Community Objectives | | |
| Total | | |
| Priority (High/Med/Low) | | |

Guidance to Complete the Mitigation Action Worksheet

The following provides additional guidance on how to complete the Mitigation Action Worksheet. Please note that NYS DHSES requires a minimum of two proposed mitigation activities; one of which cannot be a generator.

- If you have NFIP repetitive or severe repetitive flood loss properties, you must include a specific project to mitigate including the general location (neighborhood name, area of town do not include specific addresses), type of mitigation (acquisition, elevation), details regarding outreach to homeowners and schedule for implementation.
- If you have critical facilities or lifelines in the floodplain, please identify a mitigation project to reduce flood impacts. If you already mitigated, please indicate the action completed. If it is not within your jurisdiction, consider working with the facility owner to conduct a feasibility study to identify the most effective path forward need an outcome of the study to determine next steps.

Action Worksheet

Project Name: Please identify a unique project name for the mitigation action.

Project Number: 2020-Jurisdiction-001.

Assessing the Risk and Vulnerability

Hazard(s) of Concern: Please identify the hazard(s) being addressed with this action.

Description of the Problem: Provide a detailed narrative of the problem. Describe the hazard you wish to mitigate, its impacts to the jurisdiction, past damages and loss of service, etc. Include the street address of the property/project location (if applicable), adjacent streets, and easily identified landmarks such as water bodies and well-known structures, and end with a brief description of existing conditions (topography, terrain, hydrology) of the site.

Action/Project Intended for Implementation

Description of the Solution: Provide a detailed narrative of the solution. Describe the physical area (project limits) to be affected, both by direct work and by the project's effects; how the action would address the existing conditions previously identified; proposed construction methods, including any excavation and earth-moving activities; where you are in the development process (e.g., are studies and/or drawings complete), etc., the extent of any analyses or studies performed (attach any reports or studies).

Critical Facility: Please indicate whether or not the identified project is related to a critical facility or lifeline in your community.

Level of Protection: Please identify the level of protection the proposed project will provide. For example, 100-year (1%) flood.

Useful Life: Identify the number of years the project will provide protection against the hazard.

Estimated Cost: Identify all estimate costs associated with implementation.

Estimated Benefits: Identify the benefits that implementation of this project will provide (e.g., risk reduction). If dollar amounts are known, include them. If dollar amounts are unknown or are unquantifiable, describe the losses that will be avoided.

Mitigation Action Type:

- Local Plans and Regulations (LPR) These actions include government authorities, policies or codes that influence the way land and buildings are being developed and built.
- <u>Structure and Infrastructure Project (SIP)</u> These actions involve modifying existing structures and infrastructure to protect them from a hazard or remove them from a hazard area. This could apply to public or private structures as well as critical facilities and infrastructure. This type of action also involves projects to construct manmade structures to reduce the impact of hazards.
- <u>Natural Systems Protection (NSP)</u> These are actions that minimize damage and losses, and also preserve or restore the functions of natural systems.
- <u>Education and Awareness Programs (EAP)</u> These are actions to inform and educate citizens, elected officials, and property owners about hazards and potential ways to mitigate them. These actions may also include participation in national programs, such as StormReady and Firewise Communities.

Goals:

- Goal 1 Protect life, property, and critical infrastructure from hazard impacts.
- Goal 2 Reduce the risk of hazards on life, property, and the environment.

Goal 3 - Educate the public, officials, and other stakeholders about the hazards they face and what can be done to mitigate hazard impacts.

Plan for Implementation

Prioritization: Please enter High/Medium/Low. Refer to the prioritization exercise and table.

Estimated Time Required for Project Implementation: Provide the estimated time required to complete the project from start to end.

Responsible Organization: Identify the name of a department or agency responsible for implementation, not the jurisdiction.

Desired Timeline for Implementation: Identify the desired start time for this project. For example, within six months.

Potential Funding Source(s): Identify multiple sources of potential funding. For example, FEMA HMGP and PDM Grants, CDBG-DR funding, etc.

Local Planning Mechanism to be Used in Implementation (if any): Consider the use of local planning mechanisms that will be used to implement the project.

Evaluation of Potential Actions/Projects

Actions/Projects Considered: Please consider three different options to mitigate the problem identified. One alternative is always to accept the current level or risk (tolerate the vulnerability/problem) by deciding to take no action at this time. Please include the name of the action considered, estimated cost to complete the project, and a description of the pros and cons of the project.

Reporting on Progress (for plan maintenance)

Date of Status Report: This section should be completed during plan maintenance/evaluation.

Report of Progress: Describe what progress, if any, has been made on this project. If it has been determined the jurisdiction no longer wishes to pursue implementation, state that here and indicate why.

Update Evaluation of the Problem and/or Solution: Provide an updated description of the problem and solution, and what has happened since initial consideration/development.

Please note this report on progress should be done, at minimum, each year prior to the annual Planning Committee update outlined in the plan maintenance procedures.

MITIGATION STRATEGY WORKSHOP SIGN-IN DATE: 9/21/207 D Start time: 2:00 pm :15pm End time: NAME **ORGANIZATION EMAIL** PHONE 2 Sheibler $(1)_{a}$ 716-532-3353 (row rud 1676 716-938-6441-W Yaho 716 -938 2014 -C Vailey -Town 1 716 938le ve t, 716.359emplus 5517 98-3209 velle 116 a con 0 armer n 6094 Dun di H 938-2431 Ca 716.938.2480 0 716-512-2605 nagennings@re trojores C aomi 9 enninces

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MITIGATION STRATEGY WORKSHOP SIGN-IN DATE: ______ Start time: $\underline{S:SOpm}$ End time: $\underline{9}$ Oopm NAME **ORGANIZATION EMAIL** PHONE Kamerrill@cat 7110 11.11 .UVA for T.10 Franklinville MACHINS Machinshwy 2015 Quarter com 1014 M BYROADS (14)353-84 Tb Catto GES + co. Gra (716 nagennings@Ca amil Menning 7/6 938

DATE: 9 22 2020 Start time: 8:00 am End time: 10:20 am PHONE NAME **ORGANIZATION EMAIL** 716936 Lamerrill @ centres arg MOIL 1H TOLDD99510 Thomachupa 1969 to 1 Cloub, Cu-0 A 10 Ellicottule Nes a01.10m 994 ton 1 Steve deputy 5073 257-5104 512-4752 South DAYTON Bryant Former Bicolow 490-2173 CONCERNO 716378336 7/0 CARROLTON Humphrey humphaylichway dept a grad 378-6448 n. 5 EA.

MITIGATION STRATEGY WORKSHOP SIGN-IN

DATE: 23 Slptember 2020 Start time: <u>8:00am</u> End time: <u>10:23am</u>

| NAME | ORGANIZATION | EMAIL | PHONE |
|-----------------|--------------|---------------------|--------------------------|
| Kimberly Meu | ill APW | Kamerrin@ea | 7169382480 ttco.org |
| Jeffrey Van De | Car Hinsdale | jeff Van Jocar @ gr | nail. com 716-307-6353 |
| Brad Hurlay | mansfield | 5 K 4 Urlay 44 | QAULICON 474-769 |
| John Mashi | er Allegan | ý | 796-1182 |
| Juel Fiebelkurn | Leon | Leon highway | a Hotman 1. Com 394-1080 |
| DALE SENN | RANDGLPH | dwsem@u | undstroom, NET 3973311 |
| Dale Blood | l Dayoli | daleblood | 101 @guzi) 938-683 |
| J.m Nelligh | Salamanet o | -2 JNelligan | D. Salmen. com 845-461 |
| Jim Haggerty | T/O Freedom | jhaghwys | uperegnal Com 258-818; |
| Mark CBurr | Cat Co PP | w meburr | @ G HG. org 938-24 |

DATE: 24 September 2020 End time: <u>8:39</u>pm Start time: Opm **ORGANIZATION EMAIL** PHONE NAME Kamerill@cattco.org 716938.2480 Kindseder Merile Hodeman 716-424-3173 Perry Shurg (Rudolph Savid Yorkshire Yorkshir code Cyatos 716560-8964, 1000 716-698-2100 hristopher Cexer FUCETIVICLE ATT MANNARS icothill. Bon, Slo sineers , con 649 9005 716-560-HIGHWAY ashfordgar DYAHOD 716-3243 938-264 Portville EVANC al EVENSE Cattlo. org NONU roadriner 716 307 5816 Delevan delevan Supta Santh nagennines@ Catter Gra 716-512-2-605 Catto OES Jaomi Gennings att co. ary 16 -938 -243 atto Inelles C Catles. 07 716-938-2460 DPW a0()7 jhelgager Callegany.org (716)790-0073. Allegany The Helgager 1117549870GHARL 716-945-2541 SALA ACKGON

DATE: 25September 2020 Start time: 8:00am End time: a NAME **ORGANIZATION EMAIL** PHONE 7169382486 2 Kanens 101 0 1 E Mas Indon nerd C SIG SCI Q a 676 10 re Ŀ 115 TIU EAST UZZO Eastorto Hen & Gmail .com 716.376 5650 CITY OF OLKAN BRING @ CITYOF OB RINC 6. DAW mes 7/6 - 9380 - 243 716 676-09928

DATE: 29 September 2000

| Start time: <u>9:30am</u> End time: <u>11:45am</u> | | | |
|--|----------------|-------------------------|----------------------------------|
| NAME | ORGANIZATION | EMAIL | PHONE |
| Kindely Meril | 1 DPW | Kamerill@cattco.or | A69387480 |
| Bobert Barber | T/o Otto | Skeeterspete @ ADI | . Com 474-6746 |
| Sieme moust | T/o Portille | Smidwitt 88@ Gmail. Com | (716-378-9788) (M (116-378-47 |
| Som frist | 1/1 Poits. 11P | Schnfist 12 O Y=hoo | .com 716-307-160 |
| MARK BURK | DPW | MCBURRQ (ATCO. DR | b 716938243) |
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MEETING NOTES

| Meeting | Cattaraugus County Hazard Mitigation Plan (HMP) Draft Review Meeting | | |
|---------------------------------------|--|--|--|
| Dates | November 19, 2020 Times 6:00 – 6:45 p.m. | | |
| Location | Webinar and In-person at the Cattaraugus County Department of Public Works, 8810 Route 242, Jack Ellis Drive, Little Valley, NY 14755 | | |
| | Richard Hemlich, Legislator, Cattaraugus County | | |
| | Mark C. Burr, Director, Engineering and Highway Divisions, Department of Public Works, Cattaraugus County | | |
| | Kim Merrill, Secretary to the Commissioner, Department of Public Works, Cattaraugus County | | |
| | Mike Prinino, Deputy Commissioner, Department of Public Works, Cattaraugus County | | |
| | Naomi Gennings, National Incident Management System (NIMS) Coordinator, Cattaraugus County Emergency Services | | |
| | Steve Raiport, Disaster Control Coordinator, Town of Dayton | | |
| | Ann Rugg, Supervisor, Town of East Otto | | |
| | Matthew McAndrew, Supervisor, Town of Ellicottville | | |
| | Gary Palumbo, Planner, Town of Ellicottville and Village of Ellicottville | | |
| | Ben Slotman, Project Engineer at MDA Consulting Engineers, Town of Ellicottvilleand Village of EllicottvilleCarol Sheibley, Deputy Mayor, Village of Gowanda | | |
| Attendees | | | |
| Fred Filock, Supervisor, Town of Leon | | | |
| | Susan Koch, Town Clerk, Town of Little Valley Jim Bowen, Mayor, Village of Little Valley | | |
| | | | |
| | Robert Keis, Supervisor, Town of Mansfield | | |
| | Bob Ring, Public Works Superintendent, City of Olean | | |
| | Tim Richardson, Chief, City of Olean Fire Department | | |
| | Dan Ackley, Highway Superintendent, Town of Persia | | |
| | John Walgus, Supervisor, Town of Persia | | |
| | Timothy Emley, Supervisor, Town of Portville | | |
| | Kevin Clapp, Planning Manager, Mitigation Programs, New York State Division of Homeland Security and Emergency Services (NYS DHSES) | | |
| | Paul Hoole, Mitigation Planning, Federal Emergency Management Agency (FEMA) Region II | | |
| | Tony Subbio, Project Manager, Tetra Tech | | |

Purpose

The purpose of this meeting was to collect comments on the complete draft of the updated HMP.



MEETING NOTES

Discussion Points

This section summarizes each discussion point addressed during the meeting.

Draft Plan Review

Mr. Subbio led a discussion regarding each of the sections of the HMP. These sections are available on the HMP project website. Information addressed in each section is summarized below:

- Section 1: Introduction describes mitigation planning, identifies the participating jurisdictions, and provides an overview of the HMP. Attendees had no comments on, or corrections to, this section.
- Section 2: Plan Adoption describes the plan adoption process. Attendees had no comments on, or corrections to, this section.
- Section 3: Planning Process identifies the participants of the planning process, describes the planning activities undertaken during the HMP update process, and describes how the planning process will continue after the draft is approved. Mr. Subbio listed the meetings that were conducted as part of the planning process, and discussed the delays caused by the pandemic. Attendees had no comments on, or corrections to, this section.
- Section 4: County Profile describes the history of the county, its physical features, the population and demographics, building stock, land use and trends, and critical facilities. Mr. Burr stated that he will contact Mr. Subbio regarding suggestions about the soils analysis.
- Section 5: Risk Assessment identifies the hazards of concern, describes how each hazard is prioritized based on the level of risk it poses to the county and its jurisdictions, and includes full profiles of each hazard of concern. The hazards of concern are floods, landslides, severe storms, severe winter storms, utility failure, and wildfire. Attendees had no comments on, or corrections to, this section.
- Section 6: Mitigation Strategies describes past accomplishments in implementing hazard mitigation initiatives throughout the county; lists the hazard mitigation goals and objectives; describes the federal, state, county, and local capabilities that can be leveraged to reduce vulnerability to hazards; and describes how mitigation actions were identified, evaluated, and prioritized by each jurisdiction. Attendees had no comments on, or corrections to, this section.
- Section 7: Plan Maintenance identifies the HMP Coordinator and describes the responsibilities associated with this role. Ms. Merrill will be the Cattaraugus County HMP Coordinator. Section 7 also identifies members of the Planning Partnership that will maintain the plan over the next 5 years and describes how the plan will be monitored, evaluated, and updated. This section also describes the ways in which the HMP is integrated into other planning mechanisms and vice versa. Attendees had no comments on, or corrections to, this section.
- Section 8: Planning Partnership lists the participating jurisdictions and introduces the content of the jurisdictional annexes. Attendees had no comments on, or corrections to, this section.
- Section 9: Jurisdictional Annexes contains an annex for each participating jurisdiction. Each annex identifies the primary and alternate points of contact for the jurisdiction, describes the jurisdiction, assesses the risk posed to the jurisdiction by the hazards of concern, identifies

MEETING NOTES



critical facilities, describes the jurisdiction's capabilities to implement hazard mitigation, lists the status of all mitigation actions in the 2014 version of the HMP, identifies the actions that the jurisdiction included in the HMP update, and prioritizes those actions. Mr. Subbio stated that the plan includes nearly 550 actions across the 44 jurisdictions. Key actions include the following:

- A countywide flood insurance rate map (FIRM) update
- o Updates to the municipalities' flood damage prevention ordinances
- o Training for municipal floodplain administrators
- Protecting critical facilities
- o Upgrades to stormwater management infrastructure

Mr. Slotman stated that he will send comments to Mr. Subbio in the morning. Mr. Palumbo stated that he will coordinate with Mr. Slotman on the comments. Mr. Raiport confirmed with Ms. Merrill and Mr. Subbio that comments on the Town of Dayton's annex have been received. Ms. Merrill stated that the county will submit a few changes as well.

• Mr. Subbio described the set of appendices that are included in the plan. Attendees had no comments on, or corrections to, the appendices.

Next Steps

The following next steps were identified during the meeting:

- Tetra Tech will finalize the draft plan.
- Tetra Tech and the county will provide the updated sections to Mr. Clapp and Mr. Hoole.
- Mr. Hoole stated that FEMA can issue the "approvable pending adoption" status to the HMP soon after receiving the updated sections of the plan, based on the discussions of edits to be made.

Ms. Merrill thanked the county and municipal officials, Mr. Clapp, and Mr. Hoole for attending the meeting and otherwise participated in the planning process. The meeting adjourned at 6:45 p.m.





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Agenda

- > Welcome
- Draft Plan Review
- > Next Steps
- > Questions

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Draft Plan Review

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Draft Plan Review

- Section 7: Plan Maintenance
 - HMP Coordinator
 - Ongoing Planning Partnership
 - Monitoring
 - Continuous Evaluation and Progress Reports
 - Updating
 - Integration of Hazard Mitigation with Existing and Future Programs
 - Continued Public Involvement

Draft Plan Review

- Section 8: Planning Partnership
 - Participating Jurisdictions
 - Introduce Jurisdictional Annexes
- Section 9: Jurisdictional Annexes
 - Municipal Planning Team Municipal Profile Hazard Event History
 - Vulnerabilities
 - Capabilities
 - Mitigation Strategy
 Status of Post Mitigation
 - Status of Past Mitigation
 Actions
- Current Mitigation Actions

7

Draft Plan Review

- Appendices
 - Appendix A: Adoption Resolutions
 - Appendix B: Participation Matrix
 - Appendix C: Meeting Documentation
 - Appendix D: Public and Stakeholder Outreach
 - Appendix E: Risk Assessment Supplementary Data
 - Appendix F: Critical Facilities
 - Appendix G: Plan Review Tools
 - Appendix H: Plan Review Matrix

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Status and Next Steps

> Status:

8

- Submitted to NYS DHSES on October 16, 2020
- NYS DHSES review and address comments through November 6, 2020
- Submitted to FEMA Region II on November 6, 2020

Flood. Servers

- Next Steps:
 - Finalize the draft based on this meeting
 - Provide any updates to NYS DHSES and FEMA
 - FEMA review through mid-January 2021
 - Revise and resubmit (if necessary) by the end of January
 - 2021 Approvable pending adoption in February 20
 - Approvable pending adoption in February 2021
 - Plan adoption in March 2021

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CATTARAUGUS COUNTY HAZARD MITIGATION PLAN UPDATE Plan Draft Review Meeting

Thursday, November 19, 2020 | 6:00 – 8:00 p.m.

1. Welcome

2. Draft Plan Review

- a. Section 1: Introduction
- b. Section 2: Plan Adoption
- c. Section 3: Planning Process
- d. Section 4: County Profile
- e. Section 5: Risk Assessment
- f. Section 6: Mitigation Strategies
- g. Section 7: Plan Maintenance
- h. Section 8: Planning Partnership
- i. Section 9: Jurisdictional Annexes
- j. Appendices

3. Status and Next Steps

- a. Status
- b. Next Steps
- 4. Questions


2020 MULTIJURISDICTIONAL HAZARD MITIGATION PLAN

PLAN DRAFT REVIEW MEETING SIGN-IN & LIST OF CALL-IN ATTENDEES

Thursday, November 19, 2020

pm Qiu End time: Start time: **MUNICIPALITY EMAIL** PHONE NAME Menie Kamerill @ patto pra 710 2480 SPU off -243 101 71693824 atto DPW MIPrinino (a) Cattco.org 0 1 M NO alley town 38-6441 ONDA LON

2020 MULTIJURISDICTIONAL HAZARD MITIGATION PLAN

PLAN DRAFT REVIEW MEETING SIGN-IN & LIST OF CALL-IN ATTENDEES

Thursday, November 19, 2020

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