

## Section 5: Plan Maintenance

**Requirement §201.6(c)(4)(i):** *[The plan maintenance process shall include a] section describing the method and schedule of monitoring, evaluating, and updating the plan within a five-year cycle.*

### Section 5.1 Monitoring, Evaluating and Updating the Plan

This plan shall be reviewed and evaluated at least annually or following a disaster to determine the effectiveness of mitigation actions; reflect changes in laws, regulations and/or policies; reprioritize mitigation actions, if necessary, and consider other issues affecting hazard mitigation in the Kansas City metropolitan area. The Planning Team, in accordance with the roles and responsibilities outlined in Attachment 1 to Section 1, shall be responsible for coordinating annual reviews of the plan for their represented jurisdictions. The annual review process shall include an evaluation of the plan's effectiveness for the area. Criteria used to evaluate the plan should include:

- The goals and objectives address current and expected conditions
- The nature, magnitude and/or types of risk have changed
- The current resources are appropriate for implementing the plan
- There are implementation problems, such as technical, political or legal or there are coordination issues with other agencies
- The outcomes have occurred as expected
- The agency and partners participated as originally proposed

During these reviews, mitigation goals and actions will be reevaluated and updated to reflect current status as appropriate. Jurisdictions wishing to add new mitigation goals and actions may choose to do so at this time. Those jurisdictions submitting new goals and actions should develop a planning process narrative in accordance with the requirements for mitigation strategies outlined in this plan. The narrative should be submitted to the jurisdiction's respective Planning Team member for review, who will forward to MARC for formatting and incorporation into this plan. MARC will continue to provide administrative support in accordance with the roles and responsibilities of Plan Author as defined in Section 1, Attachment 1.

For this update, participating jurisdictions appointed a responsible party to act as a central point of contact and coordinate the update process for their community. These individuals are listed in Section 1, Attachment 2. During the yearly reviews, these same individuals shall be responsible for collating the necessary information from their jurisdiction and forwarding to their respective Planning Team member. Those agencies designated as the "Primary Agency Responsible" for implementing mitigating goals and actions shall provide the status of their mitigation projects to their community's responsible party, as listed in Section 1, Attachment 2. If a community's responsible party changes, they shall notify their Planning Team representative of the change.

Every five years, the Planning Team shall conduct a comprehensive review of the *Regional Multi-Hazard Mitigation Plan* and document the successes, failures, limitations and recommended revisions of hazard mitigation actions resulting in a full update to the plan. The model used for this update process will continue to be used for future updates; the roles and responsibilities outlined in Section 1, Attachment 1 will be maintained. The following generic timeline should be used to guide the update process. All dates are listed as time remaining (T-) until plan expiration:

**T – 15 months:**

- 1.) *MARC*: Notify Planning Team, participating and potential new jurisdictions of upcoming update process.
- 2.) *MARC*: Request authorizations from participating jurisdictions for *MARC* to act as Plan Author on jurisdiction's behalf (if desired).

**T-13 months:**

- 1.) *MARC*: Apply for grant funding.
- 2.) *MARC/Planning Team*: Confirm participation requirements, desired updates, changes in regulations. Begin full review of plan. Set kickoff meeting dates and times.

**T-12 months:**

- 1.) *MARC/Planning Team*: Complete full review of plan, confirm required updates
- 2.) *MARC*: Begin research.
- 3.) *MARC*: Begin advertising meeting dates and times for participating jurisdictions and other parties interested in contributing to the update process.

**T-11 months:**

- 1.) *MARC/Planning Team/Participating Jurisdictions/Other interested parties*: Begin kickoff meetings. Hold follow-up meetings as necessary.
- 2.) *Participating jurisdictions*: Begin submitting required information to *MARC*.
- 3.) *MARC*: Incorporate information received into draft update.

**T-8 months:**

- 1.) *MARC/Planning Team/Participating Jurisdictions*: Advertise and conduct 1<sup>st</sup> round of public meetings

**T-7 months:**

- 1.) *MARC/Planning Team/Participating Jurisdictions*: Advertise and conduct 2<sup>nd</sup> round of public meetings.

**T-6 months:**

- 1.) *MARC*: Complete first draft, submit to Planning Team for review and approval
- 2.) *Planning Team*: Review/Approve first draft

**T-5 months:**

- 1.) *MARC*: Submit first draft to SEMA.
- 2.) *MARC*: Make corrections to draft.
- 3.) *MARC/Planning Team/Participating Jurisdictions*: Advertise and conduct final public review and comment period.
- 4.) *Planning Team*: Review/Approve corrections to draft.

**T-3 months:**

- 1.) *MARC*: Submit final draft to SEMA for forwarding to FEMA
- 2.) *MARC*: Make any corrections from FEMA. Submit to Planning Team for review/approval and resubmittal to FEMA.
- 3.) *MARC/Planning Team/Participating Jurisdictions*: Once FEMA approves, participating jurisdictions adopt by formal resolution, and forward to FEMA.

A number of data deficiencies were identified in this update to be corrected in future updates to the greatest extent possible –pending available information. Table 5.1 identifies these deficiencies, the action required to correct them and the party responsible for collecting the information to complete the actions.

<b>TABLE 5.1: DATA DEFICIENCY CORRECTIVE ACTIONS</b>		
<b>Data Deficiency</b>	<b>Action Required</b>	<b>Responsible Party</b>
1. Limited critical facility information available for Cass and Ray counties.	Continue to work with local jurisdictions to locate and map critical facilities	Cass/Ray Planning Team representatives
2. Dam inundation pathways largely unavailable	Continue to work the MDNR and local dam owners to document dam failure inundation pathways as part of EAP update/completion process	Planning Team
3. Levee failure analysis information largely unavailable	Continue to work with USACE and other entities to obtain levee failure analysis information as it becomes available	Planning Team
4. Existing/Planned land use data unavailable for Ray County	As GIS mapping abilities become available, work with MARC to collect and input land use data	Ray County Planning Team representative, MARC
5. Various data collection/interpretation deficiencies were noted for winter weather, heat wave, drought, HazMat and infectious disease due to certain inherent limitations	Continue to reassess hazards and data collection methods for next update. As new collection methods and interpretation techniques become available, incorporate into plan update	Planning Team, MARC
6. Building count data for Loch Lloyd unavailable	Incorporate building count data as it becomes available	Cass Planning Team Representative
7. Individual jurisdiction loss estimates made using assumed standard values	Continue to collect and refine property valuation data from individual jurisdictions as it becomes available	Planning Team, Participating Jurisdictions, MARC

**Section 5.2 Incorporation into Existing Planning Mechanisms**

Incorporation of the mitigation strategies, goals and actions into other planning mechanisms, as identified by each jurisdiction, is discussed in full in Section 4.1. Throughout the planning process information for

each hazard risk assessment was requested from and provided to each jurisdiction. Utilizing this two-way approach, participating jurisdictions helped form the risk assessment section while at the same time incorporating information from it into their own local planning mechanisms. The MARC-developed survey asked jurisdictions to provide information on eight different categories:

- Ordinances related to natural hazard mitigation
- Land use planning
- Zoning
- Subdivision regulations
- Building codes
- Land acquisition
- Other community programs
- Technical documents

For each category, the jurisdiction was asked to list how their answers would be incorporated into the Hazard Mitigation Plan, which would then drive local planning mechanisms. The end goal is the establishment of a cyclical process whereby local planning mechanisms input data for the update of the Hazard Mitigation Plan, which in turn outputs strategies, goals, actions, hazard data, etc., for reincorporation back into local planning mechanisms. Table 5.1 below summarizes the information provided by each jurisdiction through the survey.

<b>TABLE 5.2: INCORPORATION INTO HAZARD MITIGATION PLANNING (SUMMARY)</b>								
<b>Community</b>	<b>Natural Hazard Mitigation Ordinances</b>	<b>Land Use Planning</b>	<b>Zoning</b>	<b>Subdivision Regulations</b>	<b>Building Codes</b>	<b>Land Acquisition</b>	<b>Other Community Programs</b>	<b>Technical Documents</b>
<b>Cass County</b>	Used to describe local capabilities	Used to describe local capabilities	Used to describe local capabilities	Used to describe local capabilities	Used to describe local capabilities	Used to describe local capabilities	Mitigation goals and actions, hazard information incorporated into Emergency Management and Capital Improvement Plans	Used to identify areas for mitigation activity
<b>Clay County</b>	Used to describe local capabilities	Used to describe local capabilities	Used to describe local capabilities	Used to describe local capabilities	Used to describe local capabilities	Used to describe local capabilities	Mitigation goals and actions, hazard information incorporated into Emergency Management, Growth Management and Capital Improvement Plans	Used to identify areas for mitigation activity
<b>Jackson County</b>	Used to describe local capabilities	Used to describe local capabilities	Used to describe local capabilities	Used to describe local capabilities	Used to describe local capabilities	Used to describe local capabilities	Mitigation goals and actions, hazard information incorporated into Emergency Management Plans	Used to identify areas for mitigation activity
<b>Platte County</b>	Reviewed and incorporated into Planning and Zoning plans	Reviewed and incorporated into Planning and Zoning plans	Reviewed and incorporated into Planning and Zoning plans	Reviewed and incorporated into Public Works plans	Reviewed and incorporated into Planning and Zoning plans	Reviewed and incorporated into Planning and Zoning plans	Mitigation goals and actions, hazard information incorporated into Emergency Management, Growth Management and Capital Improvement Plans	Used to identify areas for mitigation activity
<b>Ray County</b>	Used to describe local capabilities	Used to describe local capabilities	Used to describe local capabilities	Used to describe local capabilities	Used to describe local capabilities	Used to describe local capabilities	Mitigation goals and actions, hazard information incorporated into Emergency Management, Growth Management and Capital Improvement Plans	Used to identify areas for mitigation activity

TABLE 5.2: INCORPORATION INTO HAZARD MITIGATION PLANNING (SUMMARY)								
Community	Natural Hazard Mitigation Ordinances	Land Use Planning	Zoning	Subdivision Regulations	Building Codes	Land Acquisition	Other Community Programs	Technical Documents
<b>Blue Springs</b>	Used to describe local capabilities	N/A	N/A	N/A	Project review and code compliance check	Plan reviewed for subdivisions	Mitigation goals and actions, hazard information incorporated into Emergency Management, Growth Management and Capital Improvement Plans	Land use and critical facilities maps added to GIS database
<b>Garden City</b>	Used to describe local capabilities	Used to describe local capabilities	Used to describe local capabilities	Used to describe local capabilities	Used to describe local capabilities	Used to describe local capabilities	N/A	N/A
<b>Gladstone</b>	Used to describe local capabilities	Used to describe local capabilities	Used to describe local capabilities	Used to describe local capabilities	Used to describe local capabilities	Used to describe local capabilities	Mitigation goals and actions, hazard information incorporated into Growth Management Plan	Land use maps reviewed for areas for mitigation
<b>Grandview</b>	Used to describe local capabilities	Used to describe local capabilities	Used to describe local capabilities	Used to describe local capabilities	Used to describe local capabilities	Used to describe local capabilities	Mitigation goals and actions, hazard information incorporated into Growth Management Plan	Land use maps reviewed for areas for mitigation
<b>Houston Lake</b>	Used to describe local capabilities	N/A	N/A	N/A	Used to describe local capabilities	N/A	N/A	N/A

**TABLE 5.2: INCORPORATION INTO HAZARD MITIGATION PLANNING (SUMMARY)**

Community	Natural Hazard Mitigation Ordinances	Land Use Planning	Zoning	Subdivision Regulations	Building Codes	Land Acquisition	Other Community Programs	Technical Documents
<b>Independence</b>	Local Capabilities Assessment	Identify areas targeted for mitigation efforts	Identify areas targeted for mitigation efforts	Local Capabilities Assessment	Local Capabilities Assessment	Identify areas targeted for mitigation efforts and continued NFIP compliance	Mitigation goals and actions, hazard information incorporated into Emergency Management and Capital Improvement Plans	Identify areas targeted for mitigation efforts
<b>Kansas City, MO</b>	Ord. No. 080736, 1, 8-21-08 / Went into effect 2-14-09 -- Describe local capabilities	Reviewed watershed master plan, incorporated into capabilities assessment	Ord. No. 080736, 1, 8-21-08 / Went into effect 2-14-09 establishes mitigation performance standards	N/A	All ordinances reviewed for capabilities assessment	ORD – No. 080736 1, 8-21-08 and Section 80 (Zoning) 80-209 Open Space Developments and Conservation Development, continued NFIP compliance	Mitigation goals and actions, hazard information incorporated into Emergency Management, Growth Management and Capital Improvement Plans	Identify areas targeted for mitigation efforts
<b>Kearney</b>	Developing for mitigation activities	Used to identify areas for mitigation activity	Used to identify areas for mitigation activity	N/A	Developing for mitigation activities	Developing for mitigation activities	Mitigation goals and actions, hazard information incorporated into Emergency Management, and Capital Improvement Plans	Used to identify areas for mitigation activity

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Community	Natural Hazard Mitigation Ordinances	Land Use Planning	Zoning	Subdivision Regulations	Building Codes	Land Acquisition	Other Community Programs	Technical Documents
<b>Lee's Summit</b>	Used to describe local capabilities	Used to describe local capabilities	Used to describe local capabilities	Used to describe local capabilities	Used to describe local capabilities	Used to describe local capabilities	Mitigation goals and actions, hazard information incorporated into Emergency Management, Growth Management and Capital Improvement Plans	Used to identify areas for mitigation activity
<b>Liberty</b>	Used to describe local capabilities	Used to describe local capabilities	Used to describe local capabilities	Used to describe local capabilities	Used to describe local capabilities	Used to describe local capabilities	Mitigation goals and actions, hazard information incorporated into Emergency Management, and Capital Improvement Plans	Used to identify areas for mitigation activity
<b>Loch Lloyd</b>	N/A	Used to describe local capabilities	N/A	N/A	Used to describe local capabilities	Used to describe local capabilities	N/A	Used to identify areas for mitigation activity
<b>North Kansas City</b>	By ordinance	By ordinance	Used to describe local capabilities	Used to describe local capabilities	By ordinance	Used to describe local capabilities	Mitigation goals and actions, hazard information incorporated into Emergency Management, and Capital Improvement Plans	Used to identify areas for mitigation activity

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Community	Natural Hazard Mitigation Ordinances	Land Use Planning	Zoning	Subdivision Regulations	Building Codes	Land Acquisition	Other Community Programs	Technical Documents
<b>Oak Grove</b>	Used to describe local capabilities	Used to describe local capabilities	Used to describe local capabilities	Used to describe local capabilities	Used to describe local capabilities	Used to describe local capabilities	Used to describe local capabilities	Used to identify mitigation activity
<b>Parkville</b>	Used to describe local capabilities	Used to describe local capabilities	Used to describe local capabilities	Used to describe local capabilities	Used to describe local capabilities	Used to describe local capabilities	Mitigation goals and actions, hazard information incorporated into Emergency Management, Growth Management and Capital Improvement Plans	Used to identify areas for mitigation activity
<b>Peculiar</b>	Reviewed by responsible agency and incorporated into HMP	Reviewed by responsible agency and incorporated into HMP	N/A	N/A	Reviewed by responsible agency and incorporated into HMP	Reviewed by responsible agency and incorporated into HMP	Mitigation goals and actions, hazard information incorporated into Emergency Management, and Capital Improvement Plans	Used to identify areas for mitigation activity
<b>Platte City</b>	Used to describe local capabilities	Used to describe local capabilities	N/A	Used to describe local capabilities	Used to describe local capabilities	Used to describe local capabilities	N/A	Used to identify areas for mitigation activity
<b>Pleasant Hill</b>	Used to describe local capabilities	Used to describe local capabilities	Used to describe local capabilities	Used to describe local capabilities	Used to describe local capabilities	Used to describe local capabilities	Mitigation goals and actions, hazard information incorporated into Emergency Management, Growth Management and Capital Improvement Plans	Used to identify areas for mitigation activity

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Community	Natural Hazard Mitigation Ordinances	Land Use Planning	Zoning	Subdivision Regulations	Building Codes	Land Acquisition	Other Community Programs	Technical Documents
<b>Raymore</b>	Used to describe local capabilities	Used to describe local capabilities	Used to describe local capabilities	Used to describe local capabilities	Used to describe local capabilities	Used to describe local capabilities	Mitigation goals and actions, hazard information incorporated into Emergency Management, Growth Management and Capital Improvement Plans	N/A
<b>Raytown</b>	Referenced as local capabilities	Referenced as local capabilities	N/A	Referenced as local capabilities	Referenced as local capabilities	N/A	Referenced as local capabilities	Referenced as local capabilities
<b>Riverside</b>	Incorporated as mitigation actions	Referenced as local capabilities	N/A	Referenced as local capabilities	Referenced as local capabilities	Referenced as local capabilities	Mitigation goals and actions, hazard information incorporated into Emergency Management, Growth Management and Capital Improvement Plans	Used to identify areas for mitigation activity
<b>Smithville</b>	Used to describe local capabilities	Used to describe local capabilities	Used to describe local capabilities	Used to describe local capabilities	Used to describe local capabilities	Used to describe local capabilities	Mitigation goals and actions, hazard information incorporated into Emergency Management, Growth Management and Capital Improvement Plans	Used to identify areas for mitigation activity
<b>Sni Valley FPD</b>	Used to describe local capabilities	N/A	Used to describe local capabilities	N/A	Used to describe local capabilities	N/A	Mitigation goals and actions, hazard information incorporated into Emergency Management and Capital Improvement Plans	Used to identify areas for mitigation activity

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Community	Natural Hazard Mitigation Ordinances	Land Use Planning	Zoning	Subdivision Regulations	Building Codes	Land Acquisition	Other Community Programs	Technical Documents
<b>Strasburg</b>	Used to describe local capabilities	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Tracy</b>	Used to describe local capabilities	Used to describe local capabilities	N/A	N/A	Used to describe local capabilities	Used to describe local capabilities	Used to describe local capabilities	Used to describe local capabilities
<b>Weatherby Lake</b>	Used to describe local capabilities	Used to describe local capabilities	N/A	N/A	Used to describe local capabilities	Used to describe local capabilities	Used to describe local capabilities	Used to describe local capabilities
<b>Weston</b>	Used to describe local capabilities	Used to describe local capabilities	N/A	Used to describe local capabilities	Used to describe local capabilities	Used to describe local capabilities	Used to describe local capabilities Mitigation goals and actions, hazard information incorporated into Emergency Management, Growth Management and Capital Improvement Plans	Used to identify areas for mitigation activity