

REGION IX LOCAL HAZARD MITIGATION PLAN REVIEW TOOL

The *Local Hazard Mitigation Plan Review Tool* demonstrates how the Local Hazard Mitigation Plan meets the regulation in 44 CFR §201.6 and offers State and FEMA Mitigation Planners an opportunity to provide feedback to the community.

- The **Regulation Checklist** provides a summary of FEMA's evaluation of whether the plan has addressed all requirements.
- The **Plan Assessment** identifies the plan's strengths as well as documents areas for future improvement. This section also includes a list of resources for implementation of the plan.
- The **Multi-Jurisdiction Summary Sheet** is a mandatory worksheet for multi-jurisdictional plans that is used to document which jurisdictions are eligible to adopt the plan.

Jurisdiction: Nevada County	Title of Plan: Nevada County LHMP Update	Date of Plan: August 2017
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State Reviewer: Karen McCready-Hoover	Title: Emergency Services Coordinator	Date: March 14, 2018
Date Received at State Agency	September 4, 2017	
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FEMA Reviewer: Della Acosta Lindsey Robinson	Title: LHMP Reviewer Hazard Mitigation Planner	Date: April 2, 2018 April 19, 2018
Date Received in FEMA Region IX	March 20, 2018	
Date Not Approved		
Date Approvable Pending Adoption	May 2, 2018	
Date Approved		

SECTION 1: REGULATION CHECKLIST

INSTRUCTIONS: The Regulation Checklist must be completed by FEMA. The purpose of the Checklist is to identify the location of relevant or applicable content in the plan by element/sub-element and to determine if each requirement has been ‘Met’ or ‘Not Met.’ The ‘Required Revisions’ summary at the bottom of each element must be completed by FEMA to provide a clear explanation of the revisions that are required for plan approval. Required revisions must be explained for each plan sub-element that is ‘Not Met.’ Sub-elements should be referenced in each summary by using the appropriate numbers (A1, B3, etc.), where applicable. Requirements for each Element and sub-element are described in detail in the *Local Plan Review Guide* in Section 4, Regulation Checklist.

1. REGULATION CHECKLIST Regulation (44 CFR 201.6 Local Mitigation Plans)		Location in Plan (section and/or page number)	Met	Not Met
ELEMENT A. PLANNING PROCESS				
A1. Does the plan document the planning process, including how it was prepared and who was involved in the process for each jurisdiction? (Requirement §201.6(c)(1))	a. Does the plan provide documentation of how the plan was prepared? This documentation must include the schedule or timeframe and activities that made up the plan’s development as well as who was involved.	Sections 1.1, 1.2 Sections 3.1, 3.2 (Table 3-3)	X	
	b. Does the plan list the jurisdiction(s) participating in the plan that are seeking approval?	Section 1.2 Annexes A-F, Sections X.1	X	
	c. Does the plan identify who represented each jurisdiction? (At a minimum, it must identify the jurisdiction represented and the person’s position or title and agency within the jurisdiction.)	Chapter 3, Table 3-1, Appendix A Annexes A-F, Tables X-1	X	
A2. Does the plan document an opportunity for neighboring communities, local and regional agencies involved in hazard mitigation activities, agencies that have the authority to regulate development as well as other interests to be involved in the planning process? (Requirement §201.6(b)(2))	a. Does the plan document an opportunity for neighboring communities, local, and regional agencies involved in hazard mitigation activities, agencies that have the authority to regulate development, as well as other interested parties to be involved in the planning process?	Section 3.2 (particularly “Planning Step 3”) Appendix A	X	

1. REGULATION CHECKLIST		Location in Plan (section and/or page number)	Met	Not Met
Regulation (44 CFR 201.6 Local Mitigation Plans)				
	b. Does the plan identify how the stakeholders were invited to participate in the process?	Section 3.2.1 Appendix A	X	
A3. Does the plan document how the public was involved in the planning process during the drafting stage? (Requirement §201.6(b)(1))	a. Does the plan document how the public was given the opportunity to be involved in the planning process?	Section 3.2.1 Appendix A	X	
	b. Does the plan document how the public's feedback was incorporated into the plan?	Section 3.2.1 ("Final Public Meeting") Appendix A	X	
A4. Does the plan describe the review and incorporation of existing plans, studies, reports, and technical information? (Requirement §201.6(b)(3))		Section 2.1 Section 3.2.1 ("Planning Step 3") Sections 4.1, 4.2, 4.3 ("Data Sources") Appendix B	X	
A5. Is there discussion of how the community(ies) will continue public participation in the plan maintenance process? (Requirement §201.6(c)(4)(iii))		Section 7.2.4	X	
A6. Is there a description of the method and schedule for keeping the plan current (monitoring, evaluating and updating the mitigation plan within a 5-year cycle)? (Requirement §201.6(c)(4)(i))	a. Does the plan identify how, when, and by whom the plan will be monitored (how will implementation be tracked) over time?	Sections 7.1.1, 7.2	X	
	b. Does the plan identify how, when, and by whom the plan will be evaluated (assessing the effectiveness of the plan at achieving stated purpose and goals) over time?	Sections 7.1, 7.2	X	
	c. Does the plan identify how, when, and by whom the plan will be updated during the 5-year cycle?	Section 7.2	X	
ELEMENT B. HAZARD IDENTIFICATION AND RISK ASSESSMENT				
B1. Does the plan include a description of the type, location, and extent of all natural hazards that can affect each jurisdiction(s)? (Requirement §201.6(c)(2)(i))	a. Does the plan include a general description of all natural hazards that can affect each jurisdiction?	Sections 4.1.1, 4.2	X	

1. REGULATION CHECKLIST		Location in Plan (section and/or page number)	Met	Not Met
Regulation (44 CFR 201.6 Local Mitigation Plans)				
	b. Does the plan provide rationale for the omission of any natural hazards that are commonly recognized to affect the jurisdiction(s) in the planning area?	Section 4.1.1	X	
	c. Does the plan include a description of the type of all natural hazards that can affect each jurisdiction?	Sections 4.2.1 to 4.2.18, subsection "Hazard/Problem Description"	X	
	d. Does the plan include a description of the location for all natural hazards that can affect each jurisdiction?	Sections 4.2.1 to 4.2.18 (Refer to Section 4: Hazard Identification and Risk Assessment Matrix starting on page 19 of this review tool for location citations.)	X	
	e. Does the plan include a description of the extent for all natural hazards that can affect each jurisdiction?	Sections 4.2.1 to 4.2.18 (Refer to Section 4: Hazard Identification and Risk Assessment Matrix starting on page 19 of this review tool for location citations.)	X	
B2. Does the plan include information on previous occurrences of hazard events and on the probability of future hazard events for each jurisdiction? (Requirement §201.6(c)(2)(i))	a. Does the plan include information on previous occurrences of hazard events for each jurisdiction?	Sections 4.2.1 to 4.2.18, subsection "Past Occurrences" Annexes A-F, Sections X.5.3, subsection "Past Occurrences" for each hazard) (Refer to Section 4: Hazard Identification and Risk Assessment Matrix starting on page 19 of this review tool for location citations.)	X	

1. REGULATION CHECKLIST		Location in Plan (section and/or page number)	Met	Not Met
Regulation (44 CFR 201.6 Local Mitigation Plans)				
	b. Does the plan include information on the probability of future hazard events for each jurisdiction?	Ch 4, Table 4-2, Sections 4.2.1 to 4.2.18, subsection "Likelihood of Future Occurrence" (Refer to Section 4: Hazard Identification and Risk Assessment Matrix starting on page 19 of this review tool for location citations.)	X	
B3. Is there a description of each identified hazard's impact on the community as well as an overall summary of the community's vulnerability for each jurisdiction? (Requirement §201.6(c)(2)(ii))	a. Is there a description of each hazard's impacts on each jurisdiction (what happens to structures, infrastructure, people, environment, etc.)?	Ch 4, Table 4-4 Sections 4.2.1 to 4.2.18, 4.3 (Refer to Section 4: Hazard Identification and Risk Assessment Matrix of this review tool for location citations.)	X	
	b. Is there a description of each identified hazard's overall vulnerability (structures, systems, populations, or other community assets defined by the community that are identified as being susceptible to damage and loss from hazard events) for each jurisdiction?	Section 4.3 Annexes A-F, Sections X.5.2 Appendix. F (Refer to Section 4: Hazard Identification and Risk Assessment Matrix of this review tool for location citations.)	X	
B4. Does the plan address NFIP insured structures within the jurisdiction that have been repetitively damaged by floods? (Requirement §201.6(c)(2)(ii))		Section 4.3.8, Sub-header "Insurance Coverage, Claims Paid, and Repetitive Losses" (Table 4-64) Section 5.1.1 Annexes A-C, X.5.3, Sub-header "Insurance Coverage, Claims Paid, and Repetitive Losses" (Tables A-37, B-32, C-29)	X	
ELEMENT B: REQUIRED REVISIONS				

1. REGULATION CHECKLIST		Location in Plan (section and/or page number)	Met	Not Met
Regulation (44 CFR 201.6 Local Mitigation Plans)				
ELEMENT C. MITIGATION STRATEGY				
C1. Does the plan document each jurisdiction's existing authorities, policies, programs and resources and its ability to expand on and improve these existing policies and programs? (Requirement §201.6(c)(3))	a. Does the plan document each jurisdiction's existing authorities, policies, programs and resources?	Section 4.4 Section 5.1 Annexes A-F, Sections X.6	X	
	b. Does the plan document each jurisdiction's ability to expand on and improve these existing policies and programs?	Section 4.4 Annexes A-F, Sections X.6	X	
C2. Does the plan address each jurisdiction's participation in the NFIP and continued compliance with NFIP requirements, as appropriate? (Requirement §201.6(c)(3)(ii))		Section 4.3.8, Sub-header "Insurance Coverage, Claims Paid, and Repetitive Losses," Table 4-64, Section 5.1.1 Appendix C Annexes A-C, Sections X.7.2	X	
C3. Does the plan include goals to reduce/avoid long-term vulnerabilities to the identified hazards? (Requirement §201.6(c)(3)(i))		Section 5.2	X	
C4. Does the plan identify and analyze a comprehensive range of specific mitigation actions and projects for each jurisdiction being considered to reduce the effects of hazards, with emphasis on new and existing buildings and infrastructure? (Requirement §201.6(c)(3)(ii))	a. Does the plan identify and analyze a comprehensive range of specific mitigation actions and projects to reduce the impacts from hazards?	Section 5.4 Appendix C Annexes A-C, Sections X.7.3 Annexes D-F, Sections X.7.2 (Refer to Section 4: Hazard Identification and Risk Assessment Matrix of this review tool for location citations.)	X	
	b. Does the plan identify mitigation actions for every hazard posing a threat to each participating jurisdiction?	Section 5.4 Appendix C Annexes A-C, Sections X.7.3 Annexes D-F, Sections X.7.2 (Refer to Section 4: Hazard Identification and Risk Assessment Matrix of this review tool for location citations.)	X	

1. REGULATION CHECKLIST		Location in Plan (section and/or page number)	Met	Not Met
Regulation (44 CFR 201.6 Local Mitigation Plans)				
	c. Do the identified mitigation actions and projects have an emphasis on new and existing buildings and infrastructure?	Section 5.4	X	
C5. Does the plan contain an action plan that describes how the actions identified will be prioritized (including cost benefit review), implemented, and administered by each jurisdiction? (Requirement §201.6(c)(3)(iv)); (Requirement §201.6(c)(3)(iii))	a. Does the plan explain how the mitigation actions will be prioritized (including cost benefit review)?	Sections 5.3.1, 5.4 Appendix C	X	
	b. Does the plan identify the position, office, department, or agency responsible for implementing and administering the action, potential funding sources and expected timeframes for completion?	Section 5.4 Appendix C Annexes A-C, Sections X.7.3 Annexes D-F, Sections X.7.2	X	
C6. Does the plan describe a process by which local governments will integrate the requirements of the mitigation plan into other planning mechanisms, such as comprehensive or capital improvement plans, when appropriate? (Requirement §201.6(c)(4)(ii))	a. Does the plan identify the local planning mechanisms where hazard mitigation information and/or actions may be incorporated?	Sections 7.1	X	
	b. Does the plan describe each community's process to integrate the data, information, and hazard mitigation goals and actions into other planning mechanisms?	Section 3.2.4 Section 5.4 Sections 7.1, 7.2.3	X	
	c. The updated plan must explain how the jurisdiction(s) incorporated the mitigation plan, when appropriate, into other planning mechanisms as a demonstration of progress in local hazard mitigation efforts.	Section 2.3.2 Section 7.1 Annexes A-E, Sections X.2	X	
ELEMENT C: REQUIRED REVISIONS				

1. REGULATION CHECKLIST Regulation (44 CFR 201.6 Local Mitigation Plans)		Location in Plan (section and/or page number)	Met	Not Met
ELEMENT D. PLAN REVIEW, EVALUATION, AND IMPLEMENTATION (Applicable to plan updates only)				
D1. Was the plan revised to reflect changes in development? (Requirement §201.6(d)(3))	Section 2.2 Section 4.3.1 "Growth and Development Trends" Annexes A-E, Sections X.5.2, sub-header "Growth and Development Trends"	X		
D2. Was the plan revised to reflect progress in local mitigation efforts? (Requirement §201.6(d)(3))	Section 2.3	X		
D3. Was the plan revised to reflect changes in priorities? (Requirement §201.6(d)(3))	Sections 2.1, 2.2 Section 4.1.1 Sections 5.2, 5.3 Appendix C	X		
<u>ELEMENT D: REQUIRED REVISIONS</u>				
ELEMENT E. PLAN ADOPTION				
E1. Does the plan include documentation that the plan has been formally adopted by the governing body of the jurisdiction requesting approval? (Requirement §201.6(c)(5))	Pending APA App. D			X
E2. For multi-jurisdictional plans, has each jurisdiction requesting approval of the plan documented formal plan adoption? (Requirement §201.6(c)(5))	Pending APA App. D			X
<u>ELEMENT E: REQUIRED REVISIONS</u>				
ELEMENT F. ADDITIONAL STATE REQUIREMENTS (Optional for State Reviewers only; not to be completed by FEMA)				
F1.				
F2.				
<u>ELEMENT F: REQUIRED REVISIONS</u>				

SECTION 2: PLAN ASSESSMENT

A. Plan Strengths and Opportunities for Improvement

This section provides a discussion of the strengths of the plan document and identifies areas where these could be improved beyond minimum requirements.

Element A: Planning Process

Strengths:

- 1) The plan clearly documents and provides detailed descriptions of the planning process.
- 2) A variety of public outreach methods were utilized demonstrating the community's commitment to public involvement.

Opportunities for Improvement:

- 1) A strong list of "other Government and Stakeholder Representatives" is included, it would be valuable have a summary of how each representative participated and the input/value provided.
- 2) It is suggested to add a template/form to aid in the monitoring and evaluating process. This would be particularly helpful to track the status of the mitigation actions.

Element B: Hazard Identification and Risk Assessment

Strengths:

- 1) The plan provides significant historical data.
- 2) The plan demonstrates depth of analysis.
- 3) Like the inclusion of the "HMPC Events" section. The National Climatic Data Center (NCDC) is a great resource, but not fully comprehensive so the HMPC events section is a great supplement. The photographs are great too.

Opportunities for Improvement:

- 1) In the main body it is suggested to include more local-level maps for hazards. Many of the hazard maps are zoomed out so far, details specific to Nevada County are lacking and therefore the maps do not provide much value.
- 2) Descriptions of the location(s) affected by each hazard could be clearer. For some hazards a lot of detail is included; this provides valuable information, but also requires the reader to piece together multiple data points to understand the full picture in terms of location. Consider including a summary statement, in addition to the details.

- 3) The Cal Fire fire hazard severity zones map included in Section 4.3 is helpful for describing the extent for wildfire. It is suggested to either include this map in both Section 4.2 and 4.3 or include a reference in Section 4.2 to the map.
- 4) If not common knowledge, it is suggested to describe the categories of each map legend within the text of the document (e.g. Figure 4-59 includes a legend category of "Parcel Urban Zone & Ok IMP," it is unclear what this category is and how it relates to the wildfire hazard profile).
- 5) The HAZUS analysis for Earthquake is valuable, but it would still be helpful to see how earthquake would impact the specific critical facilities – as illustrated in Appendix F.
- 6) It is suggested to revisit the term "maximum expectable earthquake intensity" severity zones. This is confusing, because the first part of the sentence reads as if the entire county falls within "maximum intensity", but really the zones are low, mod and high, and the County has land within each of these three categories.
- 7) Table 5-2 identifies priority hazards by jurisdiction. The plan also includes Hazard Identification Tables (e.g. Table 4-2) which notes the significance of each hazard by jurisdiction. The correlation between these tables is unclear. Significance is provided in three categories, high, medium and low. However, a hazard with a high significance is not always considered a priority hazard (most of the time, but not all) and hazards listed with a medium significance are sometimes considered priority hazards and sometimes they are not (60% of the time medium significance -> priority hazard). It would be beneficial to explain the correlation and or rectify the discrepancies.

Element C: Mitigation Strategy

Strengths:

- 1) The descriptions provided for each mitigation action are thorough. It is beneficial to have the issue/background information provided for each action as well as possible alternatives and a summary of the benefits to each action.
- 2) While some of the included actions are response, recovery and preparedness actions, the majority of actions are mitigation-specific.

Opportunities for Improvement:

- 1) The plan includes a general statement about where hazard mitigation information can be incorporated into local planning mechanisms. Additional details/specifics would create a better roadmap. Most importantly for the special districts, which likely have a more varied list of planning documents.
- 2) The discussion about each jurisdiction's ability to expand and improve on their existing capabilities could be more tailored. More tailored to each jurisdiction and more tailored to the category of capability (regulatory vs. administrative/technical vs. financial capabilities).

- 3) It is suggested to at least consider hazard-specific mitigation actions for every priority hazard; if a hazard is significant enough to be a priority hazard it seems logical that hazard would also warrant mitigation.
- 4) Each Annex includes a section about incorporation of the 2011 HMP. For those participants that did not incorporate the HMP it would be valuable to provide a brief explanation of why incorporation did not occur and what will be done differently to encourage future incorporation.

Element D: Plan Update, Evaluation, and Implementation (*Plan Updates Only*)

Strengths:

- 1) Section 2.2 provides a great summary of the changes in vulnerability; it is clear and easy to read. It is also valuable to be able to see this changes by hazard.
- 2) The “Future Development” sub sections of the vulnerability analyses are great and helpful for the next version of the plan as they provide a reference point to look back on when analyzing changes in vulnerability.

Opportunities for Improvement:

- 1) The plan utilized STAPLEE to prioritize the mitigation actions. Was STAPLEE used in the previous version of the plan? If not, it would be beneficial to understand why there was a change in the prioritization method for mitigation actions.

B. Resources for Implementing and Updating Your Approved Plan

This resource section is organized into three categories:

- 1) Guidance and Resources
- 2) Training Topics and Courses
- 3) Funding Sources

Guidance and Resources

Local Mitigation Planning Handbook

<https://www.fema.gov/media-library/assets/documents/31598>

Beyond the Basics

<http://mitigationguide.org/>

Mitigation Ideas

<https://www.fema.gov/media-library/assets/documents/30627>

Plan Integration: Linking Local Planning Efforts

<https://www.fema.gov/media-library/assets/documents/108893>

Integrating Disaster Data into Hazard Mitigation Planning

<https://www.fema.gov/media-library/assets/documents/103486>

Integrating Historic Property and Cultural Resource Considerations into Hazard Mitigation Planning

<https://www.fema.gov/ar/media-library/assets/documents/4317>

Community Rating System User Manual

<https://www.fema.gov/media-library/assets/documents/8768>

U.S. Climate Resilient Toolkit

<https://toolkit.climate.gov/>

2014 National Climate Assessment

<http://nca2014.globalchange.gov/>

Managing the Risks of Extreme Events and Disasters to Advance Climate Change Adaptation

http://ipcc-wg2.gov/SREX/images/uploads/SREX-All_FINAL.pdf

FY15 Hazard Mitigation Assistance Unified Guidance

<https://www.fema.gov/media-library/assets/documents/103279>

Climate Resilient Mitigation Activities for Hazard Mitigation Assistance

<https://www.fema.gov/media-library/assets/documents/110202>

Training

More information at <https://training.fema.gov/emi.aspx> or through your State Training Officer

Mitigation Planning

IS-318 Mitigation Planning for Local and Tribal Communities

<https://training.fema.gov/is/courseoverview.aspx?code=is-318>

IS-393 Introduction to Hazard Mitigation

<https://training.fema.gov/is/courseoverview.aspx?code=is-393.a>

G-318 Preparing and Reviewing Local Plans

G-393 Mitigation for Emergency Managers

Hazard Mitigation Assistance (HMA) Grant Programs

IS-212.b Introduction to Unified HMA

<http://www.training.fema.gov/is/courseoverview.aspx?code=IS-212.b>

IS-277 Benefit Cost Analysis Entry Level

<http://www.training.fema.gov/is/courseoverview.aspx?code=IS-277>

E-212 HMA: Developing Quality Application Elements

E-213 HMA: Application Review and Evaluation

E-214 HMA: Project Implementation and Programmatic Closeout

E-276 Benefit-Cost Analysis Entry Level

GIS and Hazus-MH

IS-922 Application of GIS for Emergency Management

<http://www.training.fema.gov/is/courseoverview.aspx?code=IS-922>

E-190 ArcGIS for Emergency Managers

E-296 Application of Hazus-MH for Risk Assessment

E-313 Basic Hazus-MH

Floodplain Management

E-273 Managing Floodplain Development through the NFIP

E-278 National Flood Insurance Program/ Community Rating System

Potential Funding Sources

Hazard Mitigation Grant Program

POC: FEMA Region IX and State Hazard Mitigation Officer

Website: <https://www.fema.gov/hazard-mitigation-grant-program>

Pre-Disaster Mitigation Grant Program

POC: FEMA Region IX and State Hazard Mitigation Officer

Website: <https://www.fema.gov/pre-disaster-mitigation-grant-program>

Flood Mitigation Assistance Grant Program

POC: FEMA Region IX and State Hazard Mitigation Officer

Website: <https://www.fema.gov/flood-mitigation-assistance-grant-program>

Emergency Management Performance Grant Program

POC: FEMA Region IX

Website: <https://www.fema.gov/emergency-management-performance-grant-program>

SECTION 3:
MULTI-JURISDICTIONAL SUMMARY SHEET

INSTRUCTIONS: For multi-jurisdictional plans, this summary sheet must be completed by listing each participating jurisdiction that is eligible to adopt the plan.

MULTI-JURISDICTION SUMMARY SHEET					
#	Jurisdiction Name	Jurisdiction Type	Eligible to Adopt the Plan?	Plan POC	Email
1	Nevada County	County			
2	Grass Valley	City			
3	Nevada City	City			
4	Truckee	Town			
5	Nevada Irrigation District	Special District			
6	Truckee Donner Public Utility District	Special District			
7	Washington County Water District	Special District			