



# *Cal* OES

GOVERNOR'S OFFICE  
OF EMERGENCY SERVICES

## Appendix E. Differences from Previous Plan and Crosswalk for Plan Reviewers

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# CALIFORNIA STATE HAZARD MITIGATION PLAN

## Volume 2

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# Appendix E. Differences from Previous Plan and Crosswalk for Plan Reviewers



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E. DIFFERENCES FROM PREVIOUS PLAN AND CROSSWALK FOR PLAN REVIEWERS

This updated Plan differs from the 2018 State Hazard Mitigation Plan (SHMP) in many ways due to program requirements and plan enhancements. The table below indicates the major changes between the two Plans relating to 44 CFR Part 201 requirements for Standard and Enhanced state hazard mitigation plans. This appendix can be used by technical reviewers of the SHMP to see where the Federal Emergency Management Agency (FEMA) specified requirements have been met. Volume 1 of the 2023 SHMP is supported by a robust suite of appendices included in the second volume of the Plan. All citations in Table E-1 refer to sections in the Core Plan and not necessarily information provided in an appendix. Citations in the table are located within the respective base 2023 SHMP.

Table E-1. Key Changes from Previous Hazard Mitigation Plan

44 CFR Requirement	2018 SHMP	2023 SHMP
PLANNING PROCESS		
S1. Does the plan describe the planning process used to develop the plan? [44 CFR 201.4(b) and (c)(1)]	All of Chapter 2 documents the planning process followed for the plan update including: how the Plan was prepared, schedule or timeframe, specific milestones and activities, agencies and other stakeholders who were involved, and the efforts to integrate that process into additional State planning efforts.	This Plan update transitioned from an effort facilitated through a singular body (State Hazard Mitigation Team) to a process coordinated through subject matter- focused Hazard and Working Groups. The complete planning process is documented in Chapter 1, Section 1.2. This includes how the Plan was prepared, the schedule or timeframe, specific milestones and activities, agencies and other stakeholders who were involved, and the efforts to integrate that process into additional State planning efforts.
S2. Does the plan describe how the state coordinated with other agencies and stakeholders? [44 CFR 201.4(b) and (c)(1)]	Section 2.2.2 of the Plan identifies and chronicles the agency coordination efforts for that plan.	Chapter 1, Section 1.2.1 of the Plan documents how the agencies and stakeholders were coordinated with and how their input was utilized to inform the Plan update.

44 CFR Requirement	2018 SHMP	2023 SHMP
<b>HAZARD IDENTIFICATION AND RISK ASSESSMENT (HIRA)</b>		
S3. Does the risk assessment include an overview of the type and location of all natural hazards that can affect the state? [44 CFR 201.4(c)(2)(i)]	The Plan individually profiles three primary hazard categories (Earthquake and Geologic Hazards, Flood Hazards, and Fire Hazards), and then includes an aggregate profile of Other Hazards containing three separate categories (Other Climate and Weather-Influenced Hazards, Sociotechnical/Technological Hazards, and Threat and Disturbance Hazards). In total, 13 hazards of concern were profiled. Each profile included vulnerability and Risk Assessments.	<p>The Plan individually assessed/profiled 34 hazards of concern that were segregated into two categories:</p> <ul style="list-style-type: none"> <li>▪ Natural Hazards of Interest</li> <li>▪ Other Hazards of Interest</li> </ul> <p>The reasoning for this split can be found in Part 2, Chapter 4 of the SHMP. Each hazard profile (Parts 2 and 3, Chapters 4 to 41) Includes a current overview of hazards that can affect the State:</p> <ul style="list-style-type: none"> <li>▪ Location (FEMA requirement) – information on where the hazards have occurred or could occur</li> <li>▪ Previous occurrences (FEMA requirement) – information about when hazards have occurred in the past, including information about the range of observed intensities of the hazards</li> <li>▪ Probability of future events (FEMA requirement) – discusses the projected changes in the location, range of anticipated intensities, frequency, and duration of hazards</li> <li>▪ An impact analysis – discusses the impacts of the hazard (e.g., severity and warning time) and the impacts it can have on the environment and other hazards. This section also includes local hazard mitigation plan (LHMP) rankings for each hazard.</li> <li>▪ Vulnerability of State Assets (FEMA requirement) – overview and analysis of the vulnerability to State assets from the identified hazards as well as a summary of the most vulnerable assets; estimated potential losses to State assets located in hazard areas</li> <li>▪ Mitigation Alternatives – provides examples of mitigation actions the State and local jurisdictions can implement to reduce impacts of each hazard</li> </ul>
S4. Does the risk assessment provide an overview of the probabilities of future hazard events? [44 CFR 201.4(c)(2)(i)]	All 13 hazards profiled have a section dedicated to an overview of the probabilities of future hazard events.	All 34 hazard profiles have a section dedicated to an overview of the probabilities of future hazard events.



44 CFR Requirement	2018 SHMP	2023 SHMP
S5. Does the risk assessment address the vulnerability of state assets located in hazard areas and estimate the potential dollar losses to these assets? [44 CFR 201.4(c)(2)(ii) and 201.4(c)(2)(iii)]	All 13 hazards profiled have a section dedicated to "Assessment of Local Vulnerability and Potential Losses". The only hazard quantitatively assessed was the earthquake hazard with reference to an Annualized Avoided Loss study. All other assessments were qualitatively assessed with reference to local plans for more information.	All 34 hazard profiles have a section dedicated to the vulnerability of State Assets. This includes exposure of State-owned or -leased facilities, critical facilities, and community lifelines; estimates of loss; buildable land; and equity priority communities (exposed and vulnerable populations to the hazard). Vulnerability of local assets can be found in LHMPs for each county.  Quantitative assessments were made for all hazards that have a clearly defined extent and location where exposure can be determined. All other hazards were assessed qualitatively.
S6. Does the risk assessment include an overview and analysis of jurisdictions' vulnerability to the identified hazards and the potential losses? [44 CFR 201.4(c)(2)(ii) and 201.4(c)(2)(iii)]	All 13 hazards profiled have a section dedicated to "Assessment of Local Vulnerability and Potential Losses".	Chapter 2, Section 2.5 of the Plan includes a review and discussion on which hazards have been identified to have high impacts on all 58 counties within the State. This was based on a review of local hazard mitigation plans within each of the 58 counties in the State. Note: One jurisdiction does not have an approved hazard mitigation plan as of December 31, 2022.
S7. Was the risk assessment revised to reflect changes in development? [44 CFR 201.4(d)]	The Plan includes a geospatial review of population change trends as well as a look at building permit volumes over a time frame.	The 2023 SHMP includes the same level of detailed analysis for population trends and permit volumes. This can be found in each vulnerability assessment under the 'buildable land' subsection.
<b>STATE MITIGATION CAPABILITIES</b>		
S8. Does the plan discuss the evaluation of the state's hazard management policies, programs, capabilities, and funding sources to mitigate the hazards identified in the risk assessment? [44 CFR 201.4(c)(3)(ii)]	The Plan addresses these requirements in different parts of the Plan.	The 2023 SHMP consolidates all information relating to this requirement into one section of the Plan. This information is in Part 4, Chapter 46.

44 CFR Requirement	2018 SHMP	2023 SHMP
<b>MITIGATION STRATEGY</b>		
S9. Does the mitigation strategy include goals to reduce long-term vulnerabilities from the identified hazards? [44 CFR 201.4(c)(3)(i)]	The Plan identified four goals and 26 objectives. The objectives were separated into subsets under each of the four goals.	The 2023 SHMP identified five goals and 16 objectives. These goals and objectives differed from those in the prior plan in that the goals were linear with each standing on its own merit. This transition was to provide more versatility to the Plan in support of identifying multi-objective actions. These goals and objectives were confirmed by a Working Group that was dedicated to goal setting for the Plan. The goals and objectives can be found in Part 5, Chapter 44.
S10. Does the plan prioritize mitigation actions to reduce vulnerabilities identified in the risk assessment? [44 CFR 201.4(c)(3)(i), 201.4(c)(3)(ii) and 201.4(c)(3)(iii)]	Chapter 3, Section 3.15 of the Plan establishes a range of priorities with the following parameters: <ul style="list-style-type: none"> <li>Setting Priorities Based on Mitigation Goals and Federal Mandates</li> <li>Setting Priorities Based on State Legislation and Executive Orders</li> <li>Priorities using Federal hazard mitigation funding</li> <li>Integrating Federal, State, and Local Priorities</li> </ul>	The 2023 SHMP applied an entirely new schema for action prioritization from the 2018 SHMP that was consistently applied to all actions. This new schema asked 15 quantifiable questions for each action, for which the answers were weighted and scored. Scoring was then applied to categorize each action "high", "medium", or "low" priority. The explanation for prioritization can be found in Part 5, Chapter 47, Section 47.2 of the 2023 SHMP.
S11. Does the plan identify current and potential sources of funding to implement mitigation actions and activities? [44 CFR 201.4(c)(3)(iv)]	The Plan identifies State priorities for federal hazard mitigation funding.	For every action identified, potential sources of funding have been identified in an action plan matrix. See Part 5, Chapter 47.
S12. Was the plan updated to reflect progress in statewide mitigation efforts and changes in priorities? [44 CFR 201.4(d)]	In Appendix C to the Plan, the status of all actions has been reported under the "2018 Progress Narrative."	All prior actions were fully reconciled by the State agencies responsible through an online tracking and reporting platform. See Part 5, Chapter 45. All actions, including those that were carried over from the 2018 Plan, were prioritized using a new schema, as noted above.
<b>LOCAL PLANNING COORDINATION AND CAPABILITY BUILDING</b>		
S13. Does the plan generally describe and analyze the effectiveness of local government mitigation policies, programs, and capabilities? [44 CFR 201.4(c)(3)(ii)]	This requirement was addressed by sections 1.4, 5.2, 5.3, Table 5.H and Annex 1.	This requirement is addressed under Plan Part 4, Chapter 42 in its entirety.

44 CFR Requirement	2018 SHMP	2023 SHMP
S14. Does the plan describe the process to support the development of approvable local government mitigation plans? [44 CFR 201.3(c)(5) and 201.4(c)(4)(i)]	All of Chapter 5 of the 2018 SHMP is dedicated to local hazard mitigation planning. This requirement was addressed by sections 5.1 and 5.3. Additionally, the grant support aspect for local planning is addressed under Chapter 10.	This requirement has been addressed under Plan Part 4, Chapter 43 in its entirety.
S15. Does the plan describe the criteria for prioritizing funding? [44 CFR 201.4(c)(4)(iii)]	This requirement is addressed by Chapter 3, Section 3.15, which sets clear priorities for use of federal funding.	Although all mitigation projects seeking FEMA Hazard Mitigation Assistance (HMA) funding must be included in the SHMP, the California Governor's Office of Emergency Services (Cal OES) also provides guidelines for reviewing and ranking activities and projects put forth by State agencies, local jurisdictions, Tribal Nations, and other eligible entities. This is described in Part 6, Chapter 54, section 54.2.
S16. Does the plan describe the process and time frame to review, coordinate, and link local and Tribal mitigation plans with the State mitigation plan? [44 CFR 201.3(c)(6), 201.4(c)(2)(ii), 201.4(c)(3)(iii), and 201.4(c)(4)(ii)]	All of Chapter 5 of the 2018 SHMP is dedicated to local hazard mitigation planning. This requirement was addressed by sections 5.1, 5.2 and 5.3.	Part 4, Chapter 43, Section 43.4 has been dedicated to this requirement.
<b>REVIEW, EVALUATION, AND IMPLEMENTATION</b>		
S17. Is there a description of the method and schedule for keeping the plan current? [44 CFR 201.4(c)(5)(i) and 201.4(d)]	This requirement was addressed by Chapter 2, Section 2.5 of the plan.	Part 5, Chapter 48, Sections 48.2 and 48.3 have been dedicated to this requirement.
S18. Does the plan describe the systems for monitoring implementation and reviewing progress? [44 CFR 201.4(c)(5)(ii) and 201.4(c)(5)(iii)]	This requirement was addressed by Chapter 2, Section 2.5 of the plan.	Part 5, Chapter 48, Section 48.2.3 has been dedicated to this requirement.
<b>ADOPTION AND ASSURANCES</b>		
S19. Did the state provide documentation that the plan has been formally adopted? [44 CFR 201.4(c)(6)]	This requirement was addressed by Chapter 1, section 1.5 of the plan.	Part 5, Chapter 48 has been dedicated to this requirement.
Did the state provide assurances? [44 CFR 201.4(c)(7)]	This requirement was addressed by Chapter 1, Section 1.6 of the plan.	Part 5, Chapter 48, Section 48.4 has been dedicated to this requirement.

44 CFR Requirement	2018 SHMP	2023 SHMP
<b>HIGH HAZARD POTENTIAL DAMS (HHPD)</b>		
<i>HHPD1. Did Element S2 (planning process) describe how the state dam safety agency, other agencies, and stakeholders participated in the planning process and contributed expertise, data, studies, information, etc. relative to high hazard potential dams</i>	Did not address as this was a program that was put in place after the 2018 plan was developed and adopted.	The State Mitigation Planning Unit (SMP Unit) collected significant input across Cal OES directorates and other State agencies and departments, such as the California Department of Forestry and Fire Protection (CAL FIRE), the Office of Planning and Research (OPR), the Department of Water Resources (DWR), the California Geological Survey (CGS), and the Department of Housing and Community Development (HCD). This included input and data from the DWR Division of Safety of Dams.
<i>HHPD2. Did Element S6 (risk assessment) address all dam risk for high hazard potential dams in the risk assessment?</i>	Did not address as this was a program that was put in place after the 2018 plan was developed and adopted.	Part 2, Chapter 15 includes a comprehensive assessment of State-owned and -regulated dams within California, and a limited assessment of federal dams. The federal dam assessment was limited due to the accessibility of data on federal dams.
<i>HHPD3. Did Element S9 (mitigation goals) include mitigation goals to reduce long-term vulnerabilities from high hazard potential dams?</i>	Did not address as this was a program that was put in place after the 2018 plan was developed and adopted.	See Part 5, Chapter 44. This requirement is addressed by: Goal 1: <i>Significantly reduce risk to life, community lifelines, the environment, property, and infrastructure (i.e., High Hazard Potential Dams) by planning and implementing whole community risk reduction and resilience strategies.</i> Objective 3: <i>Improve the understanding of the locations, potential and cascading impacts, and linkages among the threats, hazards, vulnerabilities, and measures needed to protect life, community lifelines, the environment, property, and infrastructure.</i>

44 CFR Requirement	2018 SHMP	2023 SHMP
HHPD4. Did Element S10 (mitigation actions) prioritize mitigation actions and activities to reduce vulnerabilities from high hazard potential dams?	Did not address as this was a program that was put in place after the 2018 plan was developed and adopted.	The Plan identifies and prioritizes nine mitigation actions that would reduce vulnerabilities from high-hazard potential dams. These actions are as follows: <ul style="list-style-type: none"> <li>2023-013</li> <li>2018-002</li> <li>2018-006</li> <li>2018-007</li> <li>2018-008</li> <li>2018-062</li> <li>2018-063</li> <li>2018-110</li> <li>2018-111</li> </ul> See Part 5, Chapter 47
HHPD5. Did Element S11 (funding sources) identify current and potential sources of funding to implement mitigation actions and activities for high hazard potential dams?	Did not address as this was a program that was put in place after the 2018 plan was developed and adopted.	For every action identified, potential sources of funding have been identified in an action plan matrix. See Part 5, Chapter 47.
HHPD6. Did Element S13 (local coordination) generally describe and analyze the effectiveness of local mitigation policies, programs, and capabilities that address high hazard potential dams?	Did not address as this was a program that was put in place after the 2018 plan was developed and adopted.	Part 4, Chapter 42, describes the role of building codes in California and Section 40.9 describes the High Hazard Potential Dam Program and how the State will meet the HHPD requirement, including the average Building Code Effectiveness Grading Schedule (BCEGS) classifications.
HHPD7. Did Element S15 (prioritizing funding) describe the criteria for prioritizing funding for high hazard potential dams?	Did not address as this was a program that was put in place after the 2018 plan was developed and adopted.	Part 6, Section 54.2.8 identifies the HHPD program as a programmatic ranking criterion for prioritizing funding.
<b>FIRE MANAGEMENT ASSISTANCE GRANTS</b>		
FMAG1. Does the plan address wildfire risks? [44 CFR 201.4(c)(2); 44 CFR 204.51(d)(2)]	These requirements were addressed by Chapter 8 of the Plan.	Part 2, Chapter 10 fully profiled and assessed the risk from the wildfire hazard.
FMAG 2. Does the plan's mitigation strategy contain wildfire-related mitigation initiatives? [44 CFR 201.4(c)(3); 44 CFR 204.51(d)(2)]	The 2018 SHMP identified and prioritized seven wildfire mitigation initiatives.	The 2023 SHMP identifies and prioritizes eight wildfire-specific mitigation initiatives. The Plan also identifies numerous "all-hazard" initiatives that would apply to mitigating impacts from the wildfire hazard.

44 CFR Requirement	2018 SHMP	2023 SHMP
<b>ENHANCED STATE PLAN REQUIREMENTS</b>		
<b>ENHANCED STATE PREREQUISITES</b>		
E1. Does the Enhanced plan include all elements of the Standard state mitigation plan? [44 CFR 201.5(b)]	Chapters 1-9 All Annexes & Appendices	Parts 1 to 5, Chapters 1 to 48, and all Appendices.
<b>MEET HMA GRANTS MANAGEMENT PERFORMANCE REQUIREMENTS</b>		
E2. Regarding HMA, is the state maintaining the capability to meet application time frames and submitting complete project applications? [44 CFR 201.5(b)(2)(iii)(A)]	Chapter 10, Sections 10.5.1, 10.5.1.1-10.5.1.4, and Appendix L.	Part 6, Chapter 50 in its entirety.
E3. Regarding HMA, is the state maintaining the capability to prepare and submit accurate environmental reviews and benefit-cost analyses? [44 CFR 201.5(b)(2)(iii)(B)]	Chapter 10, Sections 10.5, 10.5.1, 10.5.1.3, and 10.5.1.4	Part 6, Chapter 50 in its entirety
E4. Regarding HMA, is the state maintaining the capability to submit complete and accurate quarterly progress and financial reports on time? [44 CFR 201.5(b)(2)(iii)(C)]	Chapter 10, Sections 10.5.2 and 10.5.2.1-10.5.2.3	Part 6, Chapter 50 in its entirety.
E5. Regarding HMA, is the state maintaining the capability to complete HMA projects within established performance periods, including financial reconciliation? [44 CFR 201.5(b)(2)(iii)(D)]	Chapter 10, Sections 10.5.2 and 10.5.2.2-10.5.2.4	Part 6, Chapter 50 in its entirety.
<b>INTEGRATED PLANNING</b>		
E6. Does the plan demonstrate integration, to the extent practicable, with other state and/or regional planning initiatives and FEMA mitigation programs and initiatives? [44 CFR 201.5(b)(1)]	This requirement was addressed by multiple sections of the Plan, including sections of Chapters 1, 2, 3, 4, 5, and 10, and Appendix A.	Part 6, Chapter 51 in its entirety.
<b>DEMONSTRATING COMMITMENT TO A COMPREHENSIVE STATE MITIGATION PROGRAM</b>		
E7. Does the state demonstrate commitment to a comprehensive mitigation program? [44 CFR §§ 201.3(c), 201.5(b)(4) and 201.6(d)]	This requirement was addressed by multiple sections of the Plan, including sections of Chapters 1, 3, 4, 5, 6, 7, 8, 9, and 10.	Part 6, Chapter 52 in its entirety.

44 CFR Requirement	2018 SHMP	2023 SHMP
<b>EFFECTIVE USE OF EXISTING MITIGATION PROGRAMS TO ACHIEVE MITIGATION GOALS</b>		
E8. <i>Is the state effectively using existing mitigation programs to achieve mitigation goals?</i> [44 CFR 201.5(a) and 201.5(b)(3)]	Chapter 10, Sections 10.3, 10.4, and 10.5.	Part 6, Chapter 53 in its entirety.
<b>DOCUMENTATION OF THE STATE'S IMPLEMENTATION CAPABILITY</b>		
E9. <i>Does the Enhanced plan document capability to implement mitigation actions?</i> [44 CFR 201.5(b)(2)(i), 201.5(b)(2)(ii), and 201.5(b)(2)(iv)]	Chapter 10, Section 10.5, and Appendix L.	Part 6, Chapter 54 in its entirety.