

10 HIGH HAZARD POTENTIAL DAMS

Standard State Mitigation Plan Regulation Checklist
HIGH HAZARD DAMS
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?
HHPD1-a. Does the plan describe how the state dam safety agency, other agencies, and stakeholders were involved in the planning process?
HHPD1-b. Does the plan describe the types of data contributed?
HHPD2. Did Element S6 (risk assessment) address all dam risks from high hazard potential dams in the risk assessment?
HHPD2-a. Does the plan provide a list of high hazard potential dams that have been identified by the state with their names, National Inventory of Dams identification numbers, locations by jurisdiction, and other relevant information, as well as maps?
HHPD2-b. Does the plan summarize statewide vulnerabilities to/from high hazard potential dams from hazards and the potential consequences associated with dam incidents?
HHPD2-c. Does the plan document limitations and describe the approach to address deficiencies?
HHPD3. Did Element S9 (mitigation goals) include mitigation goals to reduce long-term vulnerabilities from high hazard potential dams?
HHPD3-a. Does the plan address a reduction in vulnerabilities to/from high hazard potential dams from hazards and the potential consequences associated with dam incidents as part of their own goals or with other long-term strategies?
HHPD3-b. Does the plan link the proposed actions to reduce long-term vulnerabilities consistent with the goals?
HHPD4. Did Element S10 (mitigation actions) prioritize mitigation actions and activities to reduce vulnerabilities from high hazard potential dams?
HHPD4-a. Does the plan include actions to reduce vulnerabilities to/from high hazard potential dams?
HHPD4-b. Does the plan describe the process to evaluate and prioritize actions related to high hazard potential dams that are cost-effective, environmentally sound and technically feasible?
HHPD4-c. Does the plan describe how each action to reduce risks related to high hazard potential dams contributes to the goals and describe how strategies are linked to the state mitigation strategy?
HHPD5. Did Element S11 (funding sources) identify current and potential sources of funding to implement mitigation actions and activities for high hazard potential dams?
HHPD5-a. Does the plan include various funding sources to mitigate vulnerabilities to and from high hazard potential dams from hazards and the potential consequences associated with dam incidents, as well as funding sources to rehabilitate or remove high hazard potential dams?
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?
HHPD6-a. Does the plan provide a summary of the local policies, programs, and capabilities to implement mitigation actions and reduce vulnerabilities from high hazard potential dams from hazards and the potential consequences associated with dam incidents?
HHPD6-b. Does the plan describe challenges to implementing local mitigation policies, programs and capabilities to reduce vulnerabilities to and from high hazard potential dams and the approach to overcome these challenges?

HHPD6-c. Does the plan describe opportunities for implementing mitigation actions to reduce risks to and from high hazard potential dams through local capabilities?
HHPD7. Did Element S15 (prioritizing funding) describe the criteria for prioritizing funding for high hazard potential dams?
HHPD7-a. Does the plan describe the method for funding actions to reduce vulnerabilities to and from high hazard potential dams if these actions were prioritized differently than mitigation actions for other hazards?
HHPD7-b. Does the plan document limitations and describe the approach to addressing deficiencies?

Source: FEMA, 2022

10.1 PLANNING PROCESS

The contractor met with the State Dam Safety Engineer (DSE) several times throughout the planning process.

- The State Dam Safety Engineer provided available data on the State jurisdiction HHPD early in the process.
- The DSE reviewed a draft of the HHPD hazard profile and provided comments. Further discussion with the DSE followed.
- The DSE provided information on critical facilities that may be vulnerable to failures of HHPD.
- The DSE provided ideas on dam risk mitigation and reviewed draft mitigation actions provided by the contractor.

10.2 HIGH HAZARD POTENTIAL DAM RISKS

Location and risks associated with HHPD are described in Section 4.1.9, Hazard Identification/HHPD. Vulnerabilities and potential consequences associated with HHPD incidents are addressed in both Section 4.1.9 and 4.2.2 (Vulnerability Assessment).

The limitation to vulnerability includes lack of quality mapping due to outdated DEM data and lack of watershed analysis. The solution is updated DEM and watershed analysis which is addressed in Section 6.2. In addition, digitizing EAP inundation mapping will better enable the DSE to conduct more detailed vulnerability analyses in future planning efforts.

10.3 HIGH HAZARD POTENTIAL DAM GOALS

Section 6.1, Mitigation Strategy/Goals, includes mitigation goals to reduce long-term vulnerabilities from high hazard potential dams (element HHPD3).

10.4 HIGH HAZARD POTENTIAL DAM PRIORITIZED MITIGATION ACTIONS

Section 6.2, Prioritized Mitigation Actions, addresses prioritized strategies and activities to reduce vulnerabilities from high hazard potential dams (element HHPD4).

10.5 HIGH HAZARD POTENTIAL DAM FUNDING SOURCES

Section 5.2, Funding Capabilities for Hazard Mitigation, identifies current and potential sources of funding to implement mitigation actions and activities for high hazard potential dams (element HHPD5).

10.6 LOCAL POLICIES, PROGRAMS AND CAPABILITIES

Section 7.1, Local Government Mitigation Policies, Programs, and Capabilities, describes and analyzes the effectiveness of local mitigation policies, programs, and capabilities that address high hazard potential dams (element HHPD6). Additional details are also provided in Section 4.1.9, Hazard Identification/HHPD.

10.7 PRIORITIZING LOCAL FUNDING OPPORTUNITIES

Section 7.3, State Prioritization Process for Local Jurisdiction Funding, describes the criteria for prioritizing funding for local plans and projects, which would include those that address high hazard potential dams (element HHPD7).