

High Hazard Potential Dam (HHPD) Worksheet

A job aid for Municipalities Preparing /Amending Mitigation Plans¹
Complete a Separate Worksheet for each² state regulated HHPD in your community.

Name of the Mitigation Plan:	Point of Contact for this Worksheet Name: Email:
Municipality where dam is located:	Name of Dam:
Name of the Dam Owner:	NYS Dam ID #:

Dams are critical infrastructure that can be impacted by natural hazards and if they fail to operate as designed, there could be cascading consequences downstream in the inundation area and potentially to a larger area if the use of the pooled reservoir is lost or diminished.

This worksheet, when completed, will:

1. Describe the process followed for assessing the risks to /from the identified high hazard potential dam located in the municipality.
2. Describe the risks to the dam from natural hazards, and from the dam should it fail to operate as designed.
3. Describe the mitigation plan goal that covers addressing the vulnerabilities to/from HHPDs.
4. Describe one or more planned mitigation actions / projects related to a high hazard potential dam, be it with a HHPD grant or other FEMA hazard mitigation grant programs.

This worksheet is designed to be placed in the annex of the municipality with jurisdiction over the area where the dam is located. Use of this worksheet will ensure no HHPD requirement has been overlooked for the dam being assessed. Completing worksheets for each of the HHPDs in the municipality will allow FEMA to quickly confirm the municipality has a hazard mitigation plan that included all dam risks.

It is highly recommended that when the dam owner is another municipality, the worksheet should also be added to the other municipality's mitigation plan. Doing so will ensure the other municipality meets Element B1-a and C4-b for approval of their mitigation plan under the Stafford Act requirements.

General or generic discussion of high hazard dams and their risks is welcomed content in a mitigation plan. However, it is not a substitute meeting HHPD requirements 1 thru 4, as covered by this worksheet.

¹ Source: Local Mitigation Planning Policy Guide (pages 34-35 and 57), Released April 19, 2022

² This change, to include all state regulated HHPDs, per the Policy Guide went into effect with the release of the release of the Rehabilitation of High Hazard Potential Dams Grant Program Fiscal Year 2022 Notice of Funding Opportunity.

HHPD1: Did the plan describe the incorporation of existing plans, studies, reports, and technical information for HHPD?

HHPD1-a: Does the plan describe how the local government worked with the local dam owners and/or the state dam safety agency? Describe the process followed. The local community mitigation planning lead is encouraged to coordinate with the dam owners and the state dam safety office to determine any issues/risks associated with that dam.

In the space below cite the page number in the plan that answers this question for the dam identified or use this space to answer the question.

HHPD1-b: Does the plan incorporate information shared by the state and/or local dam owners?

Describe the information used in assessing the risk to/from the dam, that came from plans, reports, studies, or other technical information reviewed when preparing the mitigation plan, **while ensuring sensitive and/or personally identifiable information is protected and is not included in the plan or on this worksheet.**

Examples of plans, reports, studies or other technical information include:

- Inundation maps, emergency action plans, floodplain management plans, and/or data or summaries provided by dam breach modeling software, such as HEC=RAS, DSS-WISE HCOM, DSS-WISE Lite, FLO-2D, as well as more detailed studies.

In the space below cite the page number in the plan that answers this question for the dam identified or use this space to answer the question. Inundations maps (optional) may be attached to this worksheet.

HHPD2: Did the plan address HHPD in the risk assessment?

HHPD2-a: Does the plan describe the risk and vulnerabilities to and from dams, including:

- (1) Potential cascading impacts of storms, seismic events, landslides, wildfires, etc. on the dam that might affect upstream and downstream flooding potential. **Impacts from the loss or diminishment of the pooled reservoir created by the dam, and flooding impacts downstream.**

In the space below cite the page number in the plan that answers this question for the dam identified or use this space to answer the question.

HHPD2-a: Does the plan describe the risk and vulnerabilities to and from dams, including:

- (2) Potential significant economic, environmental, or social impacts, as well as multi-jurisdictional impacts from a dam incident.

In the space below cite the page number in the plan that answers this question for the dam identified or use this space to answer the question.

HHPD2-a: Does the plan describe the risk and vulnerabilities to and from dams, including:

- (3) The location and size of populations at risk from this HHPD eligible dam, as well as potential impacts to institutions and critical infrastructure / facilities / lifelines.

In the space below cite the page number in the plan that answers this question for the dam identified or use this space to answer the question.

HHPD2-a: Does the plan describe the risk and vulnerabilities to and from dams, including:

- (4) The methodology and/or assumptions for risk data and inundation modeling.

In the space below cite the page number in the plan that answers this question for the dam identified or use this space to answer the question.

HHPD2-b: Does the plan document the limitations and describe the approach for addressing deficiencies, as appropriate? If there were limitations in completing this risk assessment, document the limitations and describe the approach for addressing deficiencies.

In the space below cite the page number in the plan that answers this question for the dam identified or use this space to answer the question.

HHPD3: Did the plan include mitigation goals to reduce long-term vulnerabilities from HHPDs?

HHPD3-a: With a specific focus on HHPDs, does the plan must address a reduction in vulnerabilities to / from HHPDs as part of its own goals or with other long-term strategies?

Hazard mitigation goals are broad, long-term policy and vision statements. Goals do not need to mention specific actions, specific dams, or use the term “high hazard potential dam.” Projects submitted for consideration for HHPD funding must be consistent with the goals and actions identified in the current, approved hazard mitigation plan.

In the space below cite the page number in the plan that answers this question for the dam identified or use this space to answer the question.

HHPD3-b: Does the plan link a proposed action(s) to reducing long-term vulnerabilities consistent with its goals? It is recommended all vulnerabilities be described as problem statements to which a proposed action(s) is intended to mitigate.

In the space below cite the page number in the plan that answers this question for the dam identified or use this space to answer the question.

HHPD4: Did the plan include actions that address HHPDs and prioritize mitigation actions to reduce vulnerabilities from HHPD?

HHPD4-a: Does the plan describe specific actions to address HHPDs? Actions such as:

- Rehabilitating/removing dams
- Adopting and enforcing land use ordinances in inundation zones
- Elevating structures in inundation zones
- Adding flood projections, such as berms, floodwalls, or floodproofing, in inundation zones.

In the space below cite the page number in the plan that answers this question for the dam identified or use this space to answer the question.

HHPD4-b: Does the plan describe the criteria used to prioritize actions related to HHPD?

In the space below cite the page number in the plan that answers this question for the dam identified or use this space to answer the question.

HHPD4-c: Does the plan identify the position, office, department, or agency responsible for implementing and administering the action to mitigate hazards to or from HHPDs?

In this space cite the page number in the plan that answers this question for the dam identified or use this space to answer the question.