

Form 1: Summary of Key Dam Characteristics

Dam Name:		NID ID:	
Dam Owner:		Dam Operator:	
County:			
Latitude:		Longitude:	
Contributing Stream:			
Reservoir Drainage Area:		mi ²	
Normal Pool Elevation:		ft	
Normal Pool Volume:		acre-ft	
Top of Dam Elevation:		ft	
Dam Height:		ft	
Embankment Crest Length:		ft	
Embankment Toe Length:		ft	
Dam Crest Width:		ft	
Dam Base Width:		ft	
Upstream Slope:		_____ ft H: _____ ft V = _____ ft H: 1 ft V	
Upstream Slope Length:		ft	
Downstream Slope:		_____ ft H: _____ ft V = _____ ft H: 1 ft V	
Downstream Slope Length:		ft	
Principal Spillway Type:			
Principal Spillway Crest Elevation:		ft	
Principal Spillway Capacity:		cfs	
Auxiliary Spillway Type:			
Auxiliary Spillway Crest Elevation:		ft	
Auxiliary Spillway Crest Length:		ft	
Auxiliary Spillway Capacity:		cfs	
Low-Level Outlet Conduit Type:			
Low-Level Outlet Invert Elevation:		ft	
Low-Level Outlet Diameter:		ft	
Low-Level Outlet Capacity:		cfs	

Slope Length Calculator

$$L = \left(H^2 + \left(\frac{H}{\left(\frac{1}{S} \right)} \right)^2 \right)^{0.5}$$

Upstream Slope Input

Horizontal Component of Upstream Slope (S_u): _____ ft H: 1 ft V

Dam Height (H): _____ ft

Output

Length (L_u): _____ ft

Downstream Slope Input

Horizontal Component of Downstream Slope (S_d): _____ ft H: 1 ft V

Dam Height (H): _____ ft

Output

Length (L_d): _____ ft

Assume: Embankment slope is constant throughout length.

Note: Output is calculated from the Pythagorean Theorem [c² = a² + b²] in conjunction with the slope equation [m = y/x].

Form 2: Dam Access Details

Latitude:	
Longitude:	
Access Road Culmination (i.e. Embankment Toe, Dam Crest, etc...):	
Directions to Access Road (from nearest major roadway):	
Access Road Condition:	
Number of Access Gates/Locks:	
Lock Location	Lock Combination or Key Location/Contact

* Complete form for each access road or entryway


Form 3: *Basic Historical Dam Construction, Operation, and Maintenance*

Year Designed:	Year Constructed:
Primary Purpose:	Secondary Purpose(s):
Original Hazard Classification:	
Current Hazard Classification:	
Frequency of Inspection:	Emergency Action Plan Available (Y/N):
Summary of Rehabilitation: Year: _____	
Summary of Engineering Study Performed: Year: _____	

Note: Form can be extended as necessary to provide more dam history information.

Form 4: Emergency Intervention Materials and Providers

Supplies*	Location	Contact	Comments
Fire Extinguishers			Safety precaution
Flashlights			Recommend to be stored on-site for immediate response
Sandbags			Recommend an adequate supply be stored nearby and identify outside contacts
Sand			Consider stockpiling nearby; used to create sandbags and construct filters
Gravel			Used to construct filtered drainage berms and maintain access roads
Clay/Soil Fill			Identify possible clay and soil borrow areas that can be safely accessed
Riprap/Rock Fill			Consider stockpiling nearby due to broad usage; identify outside contacts
Concrete/Grout			Concrete structure repair; identify outside contacts
Plastic Sheeting			6 mil polyethylene sheeting recommended for flood fighting applications
Geotextile			Preferably non-clogging and woven
Caulk			Recommend flexible sealant be stored nearby for concrete structure repair
Shovels			Recommend to be stored nearby for immediate response
Buckets			Recommend to be stored nearby for immediate response
Rope			Broad usage
Extension Cords			Power to equipment

*  When filling out information for the material providers, it is important to consult the 'Cautions, Consideration, and Initiation of Intervention' section of the following chapter as not all types of material used for emergency dam intervention are eligible for grant or loan reimbursement.

Form 5: Emergency Intervention Equipment and Providers

Supplies	Location	Contact	Comments
Communication System			Two-way radios are preferred due to reliability and multiple users
Heavy Equipment (dump truck, backhoe, excavator, front-end loader, bulldozer, etc)			Identify several sources which could provide equipment
Pumps			Identify suppliers which could provide pumps
Siphon Materials			Identify material providers that could supply siphon construction/installation materials
Generators			Power source; note that large flood events often result in power outage
Floodlights			Identify adequate lighting source for night/low visibility consideration
Sand Bags and Filling Equipment			Identify for the event in which a large scale sandbagging job is deemed necessary

Form 7: State Dam Safety Office or Regulatory Agency Notification Form

Name of Person Reporting:	
24-Hour Phone Number of Person Reporting:	
Name of Dam:	Dam Operator (if known):
Latitude of Dam:	Longitude of Dam:
Nature of the Problem (e.g., potential overtopping, excessive seepage, boils, etc...):	
Location of Problem in Terms of Embankment Height:	
Location of Problem along Dam's Crest (e.g., 100 feet to the right of the outlet or abutment):	
Location of Problem in Terms of Slope (e.g., upstream, downstream, or crest):	
Extent of Problem Area (can often be established by pacing):	
Estimated Quantity of Seepage:	
Quality of the Seepage (clear, cloudy, muddy, etc...):	
Current Reservoir Pool Elevation:	
Is the Reservoir Pool Rising or Falling?:	
Readings Taken from Existing Instrumentation (if applicable) and How They Compare to Baseline Condition Readings:	
Current Weather Conditions at the Site:	
Was the Situation Worsening while being Observed?:	
Other Information:	