

Dam Field Inspection Checklist

Licensed Professional Engineer Conducting Inspection

Name:	
Business Name:	
Phone Number:	
Email Address:	

Dam Owner Information

Name:	
Mailing Address:	
Phone Number:	
Email Address:	

Dam Information

Water Structure Number (WSN):			
National Inventory Number:			
Inspection Team Members:			
Date of Inspection:			
Current Hazard Classification	<input type="checkbox"/> High	<input type="checkbox"/> Significant	<input type="checkbox"/> Low
Recommended Hazard Classification	<input type="checkbox"/> High	<input type="checkbox"/> Significant	<input type="checkbox"/> Low
Size Class:	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3 <input type="checkbox"/> 4
Ground Moisture Conditions:			
Temperature (°F):		Weather During Inspection:	

Spillways

Primary Spillway <input type="checkbox"/>		No Primary Spillway <input type="checkbox"/>	
Description:			
Reservoir Level:	<input type="checkbox"/> Above or <input type="checkbox"/> Below inlet elevation (inches or feet)		
Barrel Diameter (inches)		Riser Dimentions (Inches or feet)	
Discharge:	gpm/cfs		<input type="checkbox"/> No flow
Is there a trashrack?	<input type="checkbox"/> Yes <input type="checkbox"/> No		

Service Spillway No Service Spillway

Description:			
Reservoir Level:	<input type="checkbox"/> Above or <input type="checkbox"/> Below inlet elevation (inches or feet)		
Weir Length (feet)			
Discharge:	gpm/cfs		<input type="checkbox"/> No flow

Auxiliary Spillway No Auxiliary Spillway

Description:			
Spillway Bottom Width (ft)			
Discharge:	gpm/cfs		<input type="checkbox"/> No flow

Condition Assessment	
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Satisfactory Fair Poor Unsatisfactory	
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see discription below	(circle one)
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Satisfactory

- Dam has no deficiencies beyond minor maintenance items such as minor brush growth or saplings, small eroded/bare areas, small areas of non-structural deterioration to concrete, metal or timber components, debris in the outlets, or similar.
- Dam has no known structural issues.
- Dam may have seepage/leakage issues, provided that they are longstanding, previously evaluated and deemed to be static or not presenting a stability issue.
- Dam meets freeboard requirements.

Fair

- Dam has maintenance deficiencies beyond the minor ones allowable for "Satisfactory" dams, but these deficiencies are non-structural and do not affect the safe operation of the dam.
- Repairs will need to be done in the future but are not required within the next 3-5 years.
- Dam has no known structural issues.
- Dam may have seepage/leakage issues that, though not deemed an immediate threat to the stability of the dam, have not been adequately investigated, evaluated or addressed.
- Dam is within 1 foot of the required freeboard.

Poor

- Dam has multiple maintenance deficiencies that can affect the safe operation of the dam, some of which may be structural or need further evaluation by a qualified engineer.
- Dam may have structural issues that need to be corrected before the next regular safety inspection.
- Dam may have significant seepage/leakage issues that need to be addressed.
- Dam is within more than 1 foot of the required freeboard (notify owner that dam needs to be modified to meet freeboard requirements).

Unsatisfactory

- Dam is unsafe. A dam safety deficiency exists that requires prompt remedial action for problem resolution. Reservoir restrictions may be necessary.

Operational Status			
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Normal Operations	Under Investigation	Under Planning, Permitting, or Design for Remediation	Under Remediation
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		Under Delay	Not In Compliance
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see discription below	(circle one)
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Normal Operations

- No existing or potential dam safety deficiencies are recognized. Dam is operating without restrictions. Applies to dams with a satisfactory condition assessment.

Under Investigation

- Dam is currently under investigation or undergoing a study as a dam safety deficiency is recognized but uncertainties exist. Further investigations and studies are necessary before planning, permitting, or design can begin.

Under Planning, Permitting, or Design for Remediation

- A dam safety deficiency is recognized. Dam remediation plan is currently under planning, permitting, or design review.

Under Remediation

- A dam safety deficiency is recognized. Active construction is occurring to correct the known deficiencies.

Under Delay

- A dam safety deficiency is recognized. Owner is taking active role, but no remediation action is being taken due to funding, permits or environmental permitting issues. No progress has been made for an extended period of time.

Not In Compliance

- A dam safety deficiency is recognized. Dam owner is unresponsive and not taking risk reduction or remediation measures to make the dam meet applicable regulatory criteria. Regulatory agency may be taking enforcement action against the dam owner.

"Yes" responses need explanation added to the "comments" sections, an action box should also be checked. "No" responses indicate no issues observed during the inspection. If item is not applicable put "NA" in the comments box.

Item	Yes	No	Comments	Repair	Monitor	Investigate
General Conditions						
Unauthorized modifications to the dam?						
Evidence of significant weather event?						
Adequate grass cover?						
Fencing adequate?						
Dam Crest						
Settlement/misalignment?						
Erosion?						
Cracks, bulges?						
Undesirable vegetation?						
Animal damage? (i.e rodent holes, cattle trails, etc.)						
Roadway or trails?						
Upstream Slope						
Erosion?						
Undesirable vegetation?						
Trees?						
Animal damage? (i.e rodent holes, cattle trails, etc.)						
Drift or debris?						
Cracks, settlement, bulges?						
Downstream Slope						
Erosion?						
Undesirable vegetation?						
Trees?						
Animal damage? (i.e rodent holes, cattle trails, etc.)						
Cracks, settlement, bulges?						
Seepage/damp spots?						
Primary Spillway Inlet						
Trashrack adequate?						
Obstructions in inlet?						
Damage?						
Drawdown operative? Last operated?						
Primary Spillway Outlet/Stilling Basin						
Damage?						
Leakage?						
Joint material lost?						

Under-cutting pipe?						
Riprap/scour protection adequate?						
Outlet conduit submerged?						
Outlet channel obstruction?						
Foundation/Toe Drains						
Drain outlet submerged?						
Drain functional?						
Any flow observed?						
Flow contain sediment?						
Reservoir						
Development or fill?						
Unstable banks or slopes?						
Auxiliary/Emergency/Service Spillway						
Erosion?						
Obstructions?						
Seepage/damp spots?						
Animal damage? (i.e rodent holes, cattle trails, etc.)						
Trees or woody vegetation?						
Damage to concrete?						
Downstream						
Downstream development changes?						
Sand boils?						
Observations/Comments:						

Inspector:	Date:
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DISCLAIMER:
The Chief Engineer, by providing this dam safety field inspection checklist does not assume responsibility for any unsafe condition of the subject dam. The responsibility for the safety of this dam rests with the dam owner or operator, subject to the regulatory authority of the Chief Engineer as provided by the Obstruction in Streams Act, K.S.A. 82a-301 et seq. The dam owner or operator should take every step necessary to prevent damages caused by leakage or overflow of waters from the reservoir or floods resulting from a failure of the dam.