

Kentucky Dam Safety Inspection Summary Form

(DEP 4_030_3, Date), Page 2 of 12

ID of Dam: KY Date of Inspection: _____

IF AN INSPECTION ITEM REQUIRES FURTHER ACTION ON YOUR PART, PLACE A CHECK MARK TO THE LEFT OF THE ITEM

I. EARTH EMBANKMENTS

A. Crest

1. How would you describe the vegetation on the crest? (Check all that apply)

Recently Mowed _____ Overgrown _____ Good Cover _____ Sparse _____

Other/Corrective Action (describe): _____

2. Are there any trees or other inappropriate or excessive vegetation on the crest? Yes _____ No _____

If yes, describe (type of vegetation, size, location, etc.)/Corrective Action: _____

3. Is there a paved road or driveway on the crest? Yes _____ No _____

If yes, describe the condition (for example, good condition, numerous cracks, newly paved)/Corrective Action: _____

4. Is there a parapet wall on the crest? Yes _____ No _____

If yes, describe the condition (for example, good condition, settlement, misalignments, cracks, heaving, offset joints, exposed reinforcement)/Corrective Action: _____

5. Are there any depressions, ruts or holes on the crest? Yes _____ No _____

If yes, describe (size, location, etc.)/Corrective Action: _____

6. Are there any cracks on the crest? Yes _____ No _____

If yes, describe (length and width, location, direction of cracking, etc.)/Corrective Action: _____

7. Other observations on the crest/Corrective Action: _____

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B. Upstream Slope (EARTH EMBANKMENT)

1. How would you describe the vegetation on the upstream slope? (Check all that apply)

Recently Mowed _____ Overgrown _____ Good Cover _____ Sparse _____

Other/Corrective Action (describe): _____

2. Are there any trees or other inappropriate or excessive vegetation on the slope or within 25 feet of the embankment or abutments? Yes _____ No _____

If yes, describe (type of vegetation, size, location, etc.)/Corrective Action: _____

3. Are there any depressions, bulges, ruts or holes (such as animal burrows) on the slope? Yes _____ No _____

If yes, describe (size, location, etc.)/Corrective Action: _____

4. Are there any eroded areas on the slope (such as wave erosion along the shoreline)? Yes _____ No _____

If yes, describe (size of area, location, severity, etc.)/Corrective Action: _____

5. Are there any cracks, sloughs or slides (vertical cliffs) on the slope? Yes _____ No _____

If yes, describe (length, width, height, location, etc.)/Corrective Action: _____

6. Is there any type of slope protection along the shoreline (such as riprap)? Yes _____ No _____

If yes, describe what type and its condition (for example, riprap - adequate, inadequate, sparse)/Corrective Action: _____

7. Other observations on the upstream slope/Corrective Action: _____

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C. Downstream Slope (EARTH EMBANKMENT)

1. How would you describe the vegetation on the downstream slope? (Check all that apply)

Recently Mowed _____ Overgrown _____ Good Cover _____ Sparse _____

Other/Corrective Action (describe): _____

2. Are there any trees or other inappropriate or excessive vegetation on the slope or within 25 feet of the embankment or abutments? Yes _____ No _____

If yes, describe (type of vegetation, size, location, etc.)/Corrective Action: _____

3. Are there any depressions, bulges, ruts or holes (such as animal burrows) on the slope? Yes _____ No _____

If yes, describe (size, location, etc.)/Corrective Action: _____

4. Are there any eroded areas on the slope (such as along abutment contacts)? Yes _____ No _____

If yes, describe (size of area, location, severity, etc.)/Corrective Action: _____

5. Are there any cracks, sloughs or slides (vertical cliffs) on the slope? Yes _____ No _____

If yes, describe (length, width, height, location, etc.)/Corrective Action: _____

6. Are there any wet areas or areas of hydrophilic (lush, water-loving) vegetation? Yes _____ No _____

If yes, describe (size of area, location, etc.)/Corrective Action: _____

7. Do any wet areas indicate seepage through the dam (such as rust-colored, stained water)? Yes _____ No _____ N/A _____

If yes, describe (for example, new area of seepage, no change from past observations, size of area, location) /Corrective Action: _____

8. Are there any leaks (flowing water) from the slope or beyond the toe of the dam? Yes _____ No _____

If yes, describe (location, rate of flow, turbidity of flow)/Corrective Action: _____

9. Other observations on the downstream slope/Corrective Action: _____

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II. GRAVITY & ROCK FILL DAMS

Dam Type:

Gravity: _____ Rock Fill: _____ Other: _____

A. Crest

1. How would you describe the condition of the crest? (Check all that apply)

Cracks Heaving Exposed reinforcement Offset joints Cracked joints Misalignments

Displaced Material Vegetation Depressions Settlement Signs of overtopping

Observations: _____

Corrective Action: _____

2. Other observations on the crest/Corrective Action: _____

B. Upstream Face

1. How would you describe the condition on the upstream slope? (Check all that apply)

Cracks Heaving Exposed reinforcement Offset joints Cracked joints Misalignments

Displaced Material Vegetation Depressions Settlement

Observations: _____

Corrective Action: _____

3. Are there any areas of degradation on the slope (such as wave erosion along the shoreline)? Yes _____ No _____

If yes, describe (size of area, location, severity, etc.)/Corrective Action: _____

4. Other observations on the upstream slope/Corrective Action: _____

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C. Downstream Face and Toe (GRAVITY & ROCK FILL DAM)

1. How would you describe the condition on the downstream slope? (Check all that apply)

- Cracks Heaving Exposed reinforcement Offset joints Cracked joints Misalignments
 Displaced Material Vegetation Depressions Settlement

Observations: _____

Corrective Action: _____

2. Is there seepage? Yes _____ No _____

If yes, describe the seepage: _____

Location of seep: _____

Is the seep? Clear Turbid N/A

Estimated flow: _____

Is there sediment? Yes No

Corrective Action: _____

3. Are there any leaks (flowing water) from the slope or beyond the toe of the dam? Yes _____ No _____

If yes, describe (location, rate of flow, turbidity of flow)/Corrective Action: _____

4. Other observations on the downstream slope/Corrective Action: _____

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III. DAM APPURTENANCES

A. Principal and Auxiliary Spillways

1. What types of spillways does the dam have (such as corrugated metal, concrete or siphon pipe; concrete or earth channel)?

Principal Spillway _____ Auxiliary Spillway _____

Other/Corrective Action: _____

2. Has the auxiliary spillway activated (had flow) since the last inspection? Yes _____ No _____

If yes describe (date(s) of flow, reason for activation, depth of flow) /Corrective Action: _____

3. For pipe spillways, is the intake obstructed in any way (such as with excessive debris)? Yes _____ No _____

If yes, describe (type of debris, reason for obstruction, etc.) /Corrective Action: _____

4. For pipe spillways, what is the condition of any trash racks (for example, adequate, inadequate, damaged)? /Corrective

Action: _____

5. For pipe spillways, are there any visible cracks, separations or holes in the pipe(s) (intake or outlet)? Yes _____ No _____

If yes, describe (location, width of crack or separation, etc.)/Corrective Action: _____

6. For pipe spillways, are there any apparent leaks in the pipe(s)? Yes _____ No _____

If yes, describe (location, rate of flow from leak, etc.)/Corrective Action: _____

7. For pipe spillways, how would you describe the overall condition of the pipe(s)? (Check all that apply)

Functioning Normally _____ Not Functional _____ Deteriorated _____ Damaged _____ Adequate _____ Inadequate _____

8. For concrete or earth channel spillways, is the entrance or channel obstructed in any way? Yes _____ No _____

If yes, describe (type of obstruction, location, etc.)/Corrective Action: _____

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9. For earth channel spillways, how would you describe the vegetation in the spillway? (Check all that apply)

Recently Mowed _____ Overgrown _____ Good Cover _____ Sparse _____

Other (describe)/Corrective Action: _____

9. For earth channel spillways, are there any trees or other inappropriate vegetation in the spillway?

Yes _____ No _____

If yes, describe (type of vegetation, size, location, etc.)/Corrective Action: _____

11. For earth channel spillways, are there any eroded areas in the spillway? Yes _____ No _____

If yes, describe (size of area, location, severity, etc.)/Corrective Action: _____

12. For concrete channel spillways, are there any cracks or holes in the spillway? Yes _____ No _____

If yes, describe (width of crack or hole, location, etc.)/Corrective Action: _____

13. For concrete channel spillways, are there any leaks or evidence of undermining (flow under the concrete)?

Yes _____ No _____

If yes, describe (location, rate of flow from leak, indicators of undermining, etc.)/Corrective Action: _____

14. For earth or concrete channel spillways, how would you describe the overall condition of the spillway? (Check all that apply)

Functioning Normally _____ Not Functional _____ Deteriorated _____ Damaged _____ Adequate _____ Inadequate _____

15. Other observations on the spillways/Corrective Action: _____

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B. Drawdown

1. Drawdown control location: _____ Is this easily accessible? Yes _____ No _____

If no, describe what reasoning for inaccessibility condition (for example, riprap - adequate, inadequate, and obstructed by vegetation) /Corrective Action: _____

2. When was the drawdown last operated? _____

If the drawdown has not been operated in the last 12 month, describe why (inoperable, inaccessible, etc.) /Corrective Action: _____

C. Stilling Basin/Plunge Pool

1. Is there any type of erosion protection around the stilling basin/plunge pool (such as riprap)? Yes _____ No _____

If yes, describe what type and its condition (for example, riprap - adequate, inadequate, obstructed by vegetation, etc)

Corrective Action: _____

2. Is there any erosion and or seeps around or going into the stilling basin/plunge pool? Yes _____ No _____

If yes, describe (size of area, location, severity, etc.) - Corrective Action: _____

3. Other observations around the stilling basin/plunge pool - Corrective Action: _____

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D. Internal Drainage System

1. Are there any drainage outlets on the dam? Yes _____ No _____

If yes, specify type and describe the condition (for example, clogged, free flowing, deteriorated, good condition) -

Corrective Action: _____

2. For drains, is an animal guard installed at the outlet of each drain? Yes _____ No _____

If no, which drains lack animal guards? - Corrective Action: _____

3. For drains, measure the rate of flow from each drain and record below (use additional pages if necessary):

Designation/Location of Drain	Flow Rate	Flow Rate in GPM	Turbidity of Flow (describe – clear, muddy, etc.)

E. Instrumentation

1. Are there any piezometers or other instruments on the dam? Yes _____ No _____

If yes, describe the condition (for example, good condition, damaged, etc.)/Corrective Action: _____

2. For piezometers, are you able to take a measurement (depth to water) in each piezometer? Yes _____ No _____

If yes, record depth to water (in feet) in each piezometer, record on a separate page, and attach to this form.

3. Have instruments been read/interpreted recently? Yes _____ No _____

If yes, describe results and submit data

Corrective Action: _____

4. Other observations on instrumentation - Corrective Action: _____

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IV. HAZARD CLASSIFICATION INFORMATION:

A. General Changes

1. Have there been changes in the watershed that will affect the runoff value? Yes _____ No _____

If yes, describe what type of change (development, land clearing, etc.)/Corrective Action: _____

2. Have there been changes downstream of the structure that will affect the hazard classification? Yes _____ No _____

If yes, describe change (established or removal of businesses and residences, road development, etc.)/Corrective Action: _____

3. Does the professional engineer recommend the dam's hazard classification be revised? Yes _____ No _____

If yes, state the reasons for the recommendation: _____

B. Hydrologic and Hydraulic Report: The date of the most recent report provided to the Division _____

V. PHOTOGRAPHS

At a minimum, photographs should be taken of the upstream slope, crest, and downstream slopes, both abutments; any areas of concern (for example seepage, animal burrows, vegetative overgrowth, slides, erosion, etc.); the drawdown valve; the spillway inlets, outlets, and channels and any other notable features. List of photographs (be sure to date and time stamp the photos): _____

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Dam Safety Inspection Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for such violations.

Inspected by (Signature): _____ PE Number: _____

Professional Engineer Stamp:

_____ (Place Professional Engineer Stamp above line)