

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES

Mel Carnahan, Governor • Stephen M. Ashford, Director

DIVISION OF GEOLOGY AND LAND SURVEY

P.O. Box 250 111 Fairgrounds Rd. Rolla, MO 65402-0250
573/368-2175

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August 26, 1999

Lake Tishomingo Property Owners Association
C/O Mr. Rick Hannick
5699 Tishomingo Road
Hillsboro, MO 63050

*Approved
July 14, 2002*

RE: Lake Tishomingo Dam (MO 30039) Jefferson County

Dear Mr. Hannick:

As a result of an inspection of the Lake Tishomingo Dam by Russell C. Adams and Jordan Ott on July 28, 1999, I am pleased to inform you that Registration Permit R-156 has been renewed and is enclosed for your use. The term of the permit will be three years from the expiration date of the original registration permit issued for the dam and will expire on July 14, 2002. At that time, the dam will be reinspected by the Dam and Reservoir Safety Program at no cost to you. The permit is being renewed for three years based on the development below the dam.

The inspection found the dam in good condition and the spillway training berm in substantial compliance with the approved plans and specs of the construction permit. Please refer to the enclosed inspection report for additional information on the inspection. If you have any questions, please feel free to contact Mr. Adams, Mr. Ott or me.

Thanks for your cooperation in renewing this permit.

Sincerely,

DIVISION OF GEOLOGY & LAND SURVEY

James L. Alexander

James L. Alexander, P.E.
Chief Engineer
Dam & Reservoir Safety Program

JLA/ttt
Enclosure

c: Russell C. Adams, P.E.
Jordan F. Ott, PE

INSPECTION SUMMARY

LAKE TISHOMINGO DAM (MO 30039) Jefferson County

On July 28, 1999 a site visit was made to the Lake Tishomingo Dam for the purpose of observing its condition prior to renewal of Registration Permit R-156 and to observe the recently completed repairs to the principal spillway training berm. The owners have regularly mowed the crest of the dam and cut the woody vegetation on the downstream slope. In addition the spillway training berm was reconstructed to repair damage and to raise the crest to the minimum elevation required for the spillway design flood.

The principal spillway appeared to be in good condition. There is undermining and under seepage of the spillway slab. The owners should repair this. There is a loss of stone from several of the lower baskets and mattresses. The owners should monitor this and make repairs as necessary.

There were no visible indications of instability in the dam. Several cracks were observed in the dam but are probably related to the dry weather. There are numerous weeds on the downstream slope which should be controlled. There appears to be a planted tree on the upstream slope of the dam at the right end. Trees should not be planted on the dam fill. The owner should make plans to remove the tree.

The downstream environmental zone was investigated and nothing new was found which would affect the existing Class II designation. Based on the visual condition of the dam at the time of the inspection, it is recommended that the permit be renewed for a three year period. The three year term is based on the Class II designation.


Engineer-Dam Safety


Civil Engineer-Dam Safety

DEPARTMENT OF NATURAL RESOURCES
DAM & RESERVOIR SAFETY PROGRAM
DAM INSPECTION REPORT

COVER SHEET

DATE: JULY 28, 1999

NAME OF DAM: LAKE TISHOMINGO I.D. # MO 30039

LOCATION: County: JEFFERSON COUNTY Section: 05 Twp. 41 N Rge. 04 EAST

OWNER: LAKE TISHOMINGO PROPERTY OWNERS ASSOCIATION TELE. NUMBER: 314/274-1385
(Day & Night)

ADDRESS: C/O MR. RICK HANNICK
5699 TISHOMINGO ROAD
HILLSBORO, MISSOURI 63050

PERMIT #: R-156 D/S ENVIRONMENTAL ZONE: HAZARD CLASS: I II III

Description of D/S Zone _____

TYPE OF DAM: Concrete Gravity Concrete Arch Earthfill Other Tailings Stone

TYPE OF SPILLWAY (s) Principal Open channel on left abutment
Emergency None

WEATHER CONDITIONS: Cloudy with some rain - 80's

HEIGHT OF DAM: 63 Ft.

POOL ELEVATION: 8 inches below normal

TAILWATER CONDITIONS: None

INSPECTION TEAM
DNR Personnel

Russell C. Adams, P.E. Civil Engineer

Name Title

Jordan Ott, PE Civil Engineer

Name Title

Name Title

Name Title

Owner's Representative

**SUMMARY OF MAINTENANCE DONE AND/OR
REPAIRS MADE SINCE LAST INSPECTION**

INSPECTION DATES Current: JULY 28, 1999

Last: SEPTEMBER 20, 1993

NAME OF DAM LAKE TISHOMINGO DAM

ID# MO 30039

1. **EARTH EMBANKMENT:**

Regular mowing of crest.

2. **PRINCIPAL SPILLWAY:**

Reconstructed training berm.

3. **OUTLET WORKS:**

N/A

4. **EMERGENCY SPILLWAY:**

N/A

5. **OTHER:**

INSPECTION OF OUTLET WORKS

None

NAME OF DAM: LAKE TISHOMINGO DAM I.D. # MO 30039 INSPECTION DATE: JULY 28, 1999

ITEM	CONDITION	COMMENTS
Inlet		
Conduit		
Sluice Gate or Valve		
Outlet Structure		
Outlet Channel		
GENERAL:		
Condition of Concrete		
Condition of Other Materials		
Erosion		
Seepage		
Alignment		
Riprap		
Filter and Drains		
CONDITION CODES:		
N.P. = No observable problem	D.O. = A major defect is in evidence	O.R. = Regular observation required
M.R. = Maintenance required	E.C. = Imminent failure is expected	N.A. = Not applicable

INSPECTION OF PRINCIPAL SPILLWAY

TYPE: Open channel on left abutment

NAME OF DAM: LAKE TISHOMINGO DAM

I.D. # MO 30069

INSPECTION DATE: JULY 28, 1999

ITEM	CONDITION	DEFICIENCIES
Trash Rack	N.A.	
Inlet	N.P.	
Conduit	N.A.	
Stilling Basin	N.A.	
Outlet Channel	O.R.	Loss of stone from several of the lower baskets & mattress.
GENERAL:		
Condition of Concrete	N.P.	
Condition of Other Materials	N.P.	
Erosion	O.R.	Undermining of spillway slab.
Seepage	O.R.	Under seepage of spillway slab.
Alignment	N.A.	
Riprap	N.P.	
Filter and Drains	N.A.	

CONDITION CODES:

N.P. = No observable problem

D.O. = A major defect is in evidence

O.R. = Regular observation required

M.R. = Maintenance required

E.C. = Imminent failure is expected

N.A. = Not applicable

INSPECTION OF EMERGENCY SPILLWAY

TYPE None

NAME OF DAM: LAKE TISHOMINGO DAM I.D. # MFO 30039 INSPECTION DATE: JULY 28, 1999

ITEM	CONDITION	DEFICIENCIES
<i>Erosion</i>		
<i>Obstructions</i>		
<i>Vegetation</i>		
<i>Sedimentation</i>		
<i>Riprap</i>		
<i>Downstream Channel;</i>		

CONDITION CODES:

- N.P. = No observable problem
- M.R. = Maintenance required
- D.O. = A major defect is in evidence
- E.C. = Imminent failure is expected
- O.R. = Regular observation required
- N.A. = Not applicable

INSPECTION OF EARTH EMBANKMENT

NAME OF DAM: LAKE TISHOMINGO DAM I.D. # MO 30039 INSPECTION DATE JULY 28, 1999

ITEM	CONDITION	DEFICIENCIES
SLOPE STABILITY		
<i>Measure Slope Angles</i>	N.P.	
<i>Surface Cracking</i>	O.R.	Drying or shrinkage cracks due to dry weather.
<i>Sloughing or Sliding</i>	N.P.	
<i>Settlement</i>	N.P.	
<i>Seepage & Zones of Softness</i>	N.P.	
<i>Uniform Crest</i>	N.P.	
<i>Uniform Slopes</i>	N.P.	
OTHER:		
<i>Riprap</i>	N.P.	
<i>Filter & Drains</i>	N.P.	
<i>Animal Damage</i>	N.P.	
<i>Surface Runoff Control</i>	N.P.	
<i>Vegetation Cover</i>	M.R.	Numerous weeds on d/s slope - Appears that a planted tree is on u/s slope.
CONDITION CODES:		
N.P. = No observable problem	D.O. = A major defect is in evidence	O.R. = Regular observation required
M.R. = Maintenance required	E.C. = Imminent failure is expected	N.A. = Not applicable

**STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES
DAM AND RESERVOIR SAFETY COUNCIL**

REGISTRATION PERMIT

Pursuant to Chapters 236.400 through 236.500 of the Revised Statutes of Missouri and the rules established by the Dam and Reservoir Safety Council, and on the basis of an inspection by the Department of Natural Resources for the Lake Tishomingo Dam, Jefferson County, all of which are made a part hereof by reference, **PERMISSION IS HEREBY GRANTED** to Lake Tishomingo Property Owners Association, hereafter known as the permittee, whose address for the purpose of notices and other communications pertaining to this permit is C/O Mr. Rick Hannick; 5699 Tishomingo Road; Hillsboro, Missouri 63050, which address is subject to change by written notice from the permittee, **TO OPERATE** said dam and reservoir located in Section 05 Township 41 North, Range 04 East, having identification number of MO 30039. The dam has a height of 63 feet and a reservoir area of 120 acres at the water storage elevation. The approximate UTM Coordinates are 4,243,500 Meters North and 709,600 Meters East, Zone 15, subject to the following provisions:

GENERAL PROVISIONS:

1. No liability shall be imposed upon or incurred by the State of Missouri and/or the Dam and Reservoir Safety Council, or any of their officers, agents, employees, and members, officially or personally, on account of the granting hereof or on account of any damage to any person or property resulting from any act or omission of the permittee or any of its agents, employees, or contractors, or closed corporations or successors relating to any matter hereunder. This permit shall not be construed as estopping or limiting any legal claim or right of action of the state against the permittee, its agents, employees or contractors for any damages or injury resulting from any such act or omission by them or for violation of or failure to comply with the provisions of the permit or applicable provisions of law.
2. The permittee shall comply with all Federal, State and local laws and regulations, and shall obtain such other permits as may be required.