

Missouri Department of dnr.mo.gov

NATURAL RESOURCES

Michael L. Parson, Governor

Carol S. Comer, Director

July 1, 2020

Lake Tishomingo Property Owners Association
C/O Mr. Steve Blaha
5699 Tishomingo Road
Hillsboro, Missouri 63050

RE: Lake Tishomingo Dam (MO 30039) Jefferson County

Dear Mr. Blaha:

As a result of an inspection of the Lake Tishomingo Dam on May 27, 2020, 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 last registration permit issued for the dam and will expire on July 14, 2023. 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 downstream environmental zone classification.

Please refer to the enclosed inspection report and summary for additional information on the inspection. If you have any questions, please feel free to contact Jerry Scheible at (573) 368-2175.

Thanks for your cooperation in renewing this permit.

Sincerely,

MISSOURI GEOLOGICAL SURVEY

Ryan P. Stack, P.E.
Chief Engineer
Dam and Reservoir Safety Program

RPS/clb
Enclosure



**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 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 5, Township 41 North, Range 4 East, having identification number of MO30039, a dam height of 63 feet, a principal spillway elevation of 100.0 feet (site datum), a minimum crest elevation of 108.0 feet (site datum), a reservoir area of 120 acres at the water storage elevation and approximate UTM Coordinates of 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.

3. In cases where the doing by the permittee of anything authorized by this permit shall involve the taking, using or damaging of any property rights or interest of any other person or persons, or of any publicly owned lands or improvements thereon or interests therein, it is the sole responsibility of the permittee, before proceeding therewith, to obtain the written consent of all persons, agencies, or authorities concerned, and to acquire all property, rights and interests necessary therefore, including flood easements or permissions for all properties which may be inundated by the dam on a temporary or permanent basis in the upstream impoundment area below the top of dam elevation.
4. The permittee shall notify the Dam and Reservoir Safety Council in writing upon the sale or other transfer of interest in the dam or reservoir.
5. Based on conditions existing at the time of issuing this permit, the Downstream Environment Zone is Class II. Future development in the vicinity of the dam and flood plain below the dam may result in a change in classification. This change will necessitate hydraulic and structural upgrading of the dam so the dam is in compliance with the rules and regulations of the Missouri Dam and Reservoir Safety Council. Permittee or its representatives, successors or assigns shall perform any such upgrading upon a change in classification and upon notification from the Missouri Dam and Reservoir Safety Council.
6. The permittee shall not alter, enlarge, reduce, repair or remove the dam, reservoir or appurtenances without first obtaining a construction permit from the Dam and Reservoir Safety Council.
7. The permittee shall immediately notify in writing, the Chief Engineer of any conditions relating to the structural stability of, hydraulic capacity of, or seepage through the dam discovered during the term of this permit which may differ from those conditions identified in the renewal inspection summary.
8. The terms and provisions of this permit shall extend to and bind the successors in authority of the Dam and Reservoir Safety Council and the legally assigned successors in interest of the permittee.
9. Maintenance of the dam and reservoir herein permitted shall be the responsibility of the permittee.
10. The term of this permit shall be three (3) years from the expiration date of the last registration permit issued for the dam and will expire on July 14, 2023. The permittee shall apply for renewal not less than sixty (60) days prior to this expiration date.

Executed at Rolla, Missouri on this 1st day of
July, 2020

DAM & RESERVOIR SAFETY COUNCIL



By _____
Chief Engineer
Dam and Reservoir Safety Program

COVER SHEET

NAME OF DAM: Lake Tishomingo Dam

I.D. # : MO30039

LOCATION: County: Jefferson

Section: 5, Twp. 41 N, Rge. 4 E

OWNER: <u>Lake Tishomingo Property Owners Association</u>
ADDRESS: <u>C/O Mr. Steve Blaha, President</u>
<u>5699 Tishomongo Road</u>
CITY/STATE/ZIP: <u>Hillsboro, Missouri 63050</u>
TELEPHONE: <u>Steve Blaha 314-808-4757</u>
Point of contact: <u>Clarue Holland clarue-martin@att.net</u>
Office: <u>314-426-3858 Cell: 314-623-5869</u>

PERMIT #	HAZARD CLASS	TYPE OF DAM
R-156	CLASS II	EARTHFILL

TYPE OF SPILLWAY (s) Principal Concrete weir in rock cut open channel on left abutment
 Emergency None

I hereby certify that the Lake Tishomingo Dam was inspected on May 27, 2020 in accordance with RSMO 236.400 through RSMO 236.500.

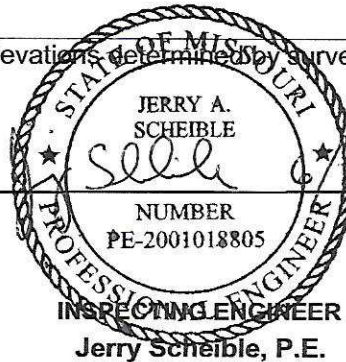
I hereby certify that the Lake Tishomingo Dam did not have any observed defects that required correction at the time of the inspection.

Judgement of Slope Stability – The embankment and appurtenant structures appeared to be in good overall condition at the time of the inspection, with no indications of slope instability or excessive seepage.

Defects were found that will have to be corrected prior to the permit being renewed.

STATION	ELEVATION	COMMENTS
TBM/PS	100.0	Temporary benchmark/principal spillway crest
Dam	108.0	Minimum crest of dam
WL	100.2	Water surface on day of inspection

Elevations are in feet and are based on local site datum of 100.00. Relative elevations determined by survey with auto-level and rod.



Inspection Checklist

NAME OF DAM:	Lake Tishomingo Dam	INSPECTION DATE: May 27, 2020
ID #: MO 30039	COUNTY: Jefferson	HAZARD CLASS: 2

HAZARD CLASSIFICATION: Unchanged Changed

Item	Condition*	Issue	Comments
1. Upstream face/riprap	NP		
2. Crest	NP		
3. Downstream face	MR / OR	Varmint holes / Uneven surface	Groundhog holes were noted on the downstream face of the dam; just left of the mid-point of the slope and around the siphon pipe. Excavate and fill the burrows with compacted clay material and make efforts to discourage future rodent activity. / Monitor the uneven surface of the left 1/3 of the embankment for any changes or movement; such as signs of surficial sliding or scarps.
4. Left groin	NP		
5. Right groin	OR	Seep	There is evidence of seepage (hydrophitic vegetation and standing water with iron oxidizing bacteria/orange staining) in right groin, approximately 2/3 downslope from the crest. Monitor regularly and if there is any change in color or flowrate, contact the Dam and Reservoir Safety Program.
6. Toe of dam	NP		
7. Principal spillway	NP		Great job on the spillway maintenance.
8. Principal spillway channel	NP		Great job on the woody vegetation removal.
9. Emergency spillway	NA		
10. Emergency spillway outlet channel	NA		
11. Embankment drains	MR	Vegetation	Clear the excess vegetation from around the outlet pipe to allow proper access and visual inspection. (Flow from drain at the inspection was less than 5 gallon/minute.)
12. Lake drain gates/valves	NA		
13. Other	NP		

*NP = No observable problem
EC = Emergency Condition

MR = Maintenance Required
OR = Observation Required

DO = Defect Observed
NA = Not Applicable

Required Freeboard	Available Freeboard
7.7 feet	8.0 feet

RECOMMENDATION:

Permit is being renewed

Permit is not being renewed

Photographs of MO30039 on May 27, 2020



Upstream face



Downstream face



Principal spillway crest



Principal spillway channel



Embankment drain outlet with excess vegetation to remove



Groundhog burrow to excavate and fill



Seepage in right groin near toe (2017 photo)



Uneven surface on downstream face to monitor for movement/change

