

Memorandum

Date: 20 June 2023

To: David Griffin, P.E., Georgia Safe Dams Program (GSDP)

From: Wesley MacDonald, P.E., Geosyntec Consultants (Geosyntec)

Subject: Lake Petit Dam Temporary Emergency Action Plan

PURPOSE

This memorandum serves as a Temporary Emergency Action Plan (TEAP) for Lake Petit Dam. A temporary condition exists at Lake Petit Dam where a plug has been installed in the low-level outlet (LLO) to allow testing and replacement of portions of the LLO sluice gate. This plug is presently in place and prevents water from flowing through the LLO should the LLO sluice gate be opened, thus removing one measure of being able to lower the reservoir elevation should an emergency occur. The LLO plug is planned to remain in place until the LLO sluice gate repairs can be completed. This TEAP outlines additional actions to be performed to lower the reservoir should a dam safety emergency arise and will only be in effect until the LLO plug is removed.

Notifications, event detection, level determination, and other procedures will continue to be followed as outlined the Lake Petit Dam Emergency Action Plan (EAP), Revision 4 (December 2022).

REMEDIAL ACTIONS

Should a dam safety emergency occur requiring activation of the EAP, the following preplanned remedial actions should be used in conjunction with the remedial actions currently listed in the EAP.

After initial notifications are made, as outlined in the EAP, the Dam Owner's Representative will begin to lower the reservoir by use of the existing siphon, use of pumps, and initiation of removal of the LLO plug so that the LLO sluice gate can then be opened.

The Dam Owner's Representative will coordinate to immediately open the existing siphon line that lies east of the spillway. The existing siphon line is designed to lower the lake up to seven feet. This reduction in elevation represents more than 25 percent of the state's suggested reduction in volume (i.e., two-thirds of the normal pool) that the LLO would otherwise provide.

The Dam Owner's Representative will immediately contact a pre-determined pump supplier. A coordination plan has been made with a local pump provider to supplement the drawdown

provided by the siphon and further reduce the reservoir pool. This provider will be able to immediately begin mobilizing equipment upon notification by the Dam Owner's Representative.

The Dam Owner's Representative will immediately contact the contractor who installed the LLO plug. The Owner has an agreement in place with this contractor and expects the plug will be removed within seven days of a notification call. Once the plug is removed the LLO sluice gate can be opened to further reduce the reservoir pool, should it be needed.

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