

Tennessee Valley Authority
Regulatory Submittal for Kingston Fossil Plant

Documents submitted:
Lateral Expansion Platform Lime Treatment Work Plan

Date Submitted:
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Lateral Expansion Platform Lime Treatment Work Plan

1.0 Purpose

This work plan takes the technique being used in the east embayment and uses it on the platform constructed on the lateral expansion area. This is a contingency work plan in the event that the ash being dipped from the lateral expansion area will not dry quickly enough to be offloaded from the platform in time to recover more ash. It may also become necessary if efforts to store ash along Dike D are not sufficiently productive to keep up with ash removal (discussed under the Work Plan for Construction/Operation of Excavation/Working Platform/Extended Platform on Lateral Expansion-Rev. 1).

2.0 Design

No new design is needed for this activity. The controls discussed in the approved Lime Application Work Plan will be followed.

3.0 Construction

This activity will use equipment, operators, and material currently being supplied by Mt. Carmel in the east embayment. Lime will be applied through the specialized excavator that lays lime on top of the ash and then carefully mixed with another TVA-supplied excavator. A water truck will be available to control dust that may be generated. In addition, a water misting system will be used when available to TVA.

While using lime near the ash pond, the pH of the ash pond will be monitored. Wherever the lime is applied, controls will be used to limit migration of the lime to surface water. An ash berm exists around the platform. That berm will minimize runoff of lime into the lateral expansion area and subsequently into the ash pond. In addition, the trucks will be loaded shortly after treatment, especially during inclement weather, to limit the size of any storage piles of treated material on the platform. Therefore, before a rain event occurs, any remaining treated material can be covered with a tarp using heavy equipment and labor to prevent releases of lime to the ash pond. In good weather, a small stockpile of treated material may occur.

4.0 Schedule

This work will begin once the work plan and work packages are approved and the need for treatment is determined. The potential for lime treatment will exist through the end of river dredging and for a few weeks after if efforts are made to recover free water volume in the ash pond.

5.0 Waste Management

Lime disposal has been approved by ADEM for up to 6% by weight.

6.0 Health and Safety

The site-wide safety and health plan will be followed. Care will be taken with dust control.