

Tennessee Valley Authority  
Regulatory Submittal for Kingston Fossil Plant

Documents submitted:  
Settling Basins Maintenance and Clean Out Plan

Date submitted  
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## **Settling Basins Maintenance and Clean Out Plan**

### **1.0 Background**

This plan is to define the maintenance and clean out plan for the Settling Basins. The basins are designed to capture ash materials from storm runoff prior to it being discharged into the river. A technical memorandum that improves the upstream storm water management under the SWPPP will be implemented to limit the future ash moving into the basins. The basins have standpipes with floating skimmers that allow water to be taken off the top once the ash has fallen out of the runoff. There is a rock baffle in area 1A and three jute baffles in pond 2A.

During de-watering of areas east of Dike 2 ash laden water is pumped into the basins to allow settling prior to discharge. These activities are intermittent and usually are low volume discharges. However this increases the ash loading to the settling areas.

### **2.0 Design**

The existing rock baffle that is present in Settling Area 1A will be removed to allow full use of the basin and to allow for improved ash removal.

### **3.0 Inspection and Maintenance**

The skimmers will be inspected once every 3 months to insure they are in proper working order and cleaned out if fouled. They will be observed during the SWPPP inspections that occur twice weekly and if needed will be cleaned prior to the scheduled cleaning.

While excess water is being pumped to the settling areas (i.e. ash removal activities east of Dike 2 are on-going) Settling Area 1A will be cleaned out (ash removed) at least every 15 days. Settling Area 2A will be cleaned out at least every 30 days. If excessive ash accumulates, they will be cleaned out more frequently. This frequency will be revisited if conditions change. All areas will be monitored during the SWPPP inspections.

The settling basins are proposed to be cleaned out using a hydraulic dredge and/or an excavator. Dredged material will be pumped to the lateral expansion area which originally operated as a dredge cell to allow the water to drain away and deposit the ash. The initial cleanout is expected to generate an estimated 9000 cy of ash. Ash removed from the settling basins by an excavator will be trucked to wet processing areas for drying.

### **4.0 Health and Safety**

The primary risk from this activity is associated with working around water. All activities will follow the site-wide safety and health plan.