

# **CCR FUGITIVE DUST CONTROL PLAN**

## **KINGSTON FOSSIL PLANT COAL COMBUSTION PRODUCTS KINGSTON, TENNESSEE**

**Prepared by:**



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**December 13, 2019 (Amended)**

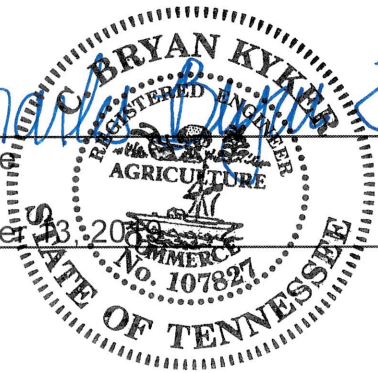


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# CERTIFICATION

I certify that this plan meets the requirements of 40 CFR 257.80, Final Rule: Disposal of Coal Combustion Residuals from Electric Utilities.

  
Signature C. Bryan Kyke  
December 13, 2013  
Date

## **1.0 OVERVIEW**

This CCR Fugitive Dust Control Plan (Plan) provides a program for minimizing fugitive dust events originating from day-to-day operations for Coal Combustion Residuals (CCR) management at the Kingston Fossil Plant (KIF or Site) of the Tennessee Valley Authority (TVA), located in Kingston, Tennessee. This document provides measures to effectively minimize CCR from becoming airborne from CCR units, roads, and other CCR management activities. This plan has been developed in accordance with 40 CFR 257.80, Final Rule: Disposal of Coal Combustion Residuals from Electric Utilities.

### **1.1 Facility Description**

KIF is a fossil-fueled, steam-electric generating plant operated by TVA that has nine coal-fired generating units. It is located north of Kingston in Roane County, Tennessee on Swan Pond Road. CCR materials produced by the power generating station are placed into the Peninsula Disposal Area, a permitted landfill located east of the plant. The Sluice Trench and Ballfield East of Sluice Trench and the Stilling Pond are located northeast of the plant and have been capped and closed.

## **2.0 FUGITIVE DUST CONTROL MEASURES**

Fugitive dust will be controlled primarily through the conditioning and wetting of CCR material and associated CCR management activities as these methods have been historically effective and appropriate at the Site. In accordance with the KIF Title V Operating Permit, there will be no visible fugitive dust emissions leaving the Site's property boundary.

The Construction Contractor will manage dust suppression on Stilling Pond, Sluice Trench and Ballfield East of Sluice Trench, Peninsula Disposal Area, the area around the Fly Ash Silos, and haul roads through the application of water using water trucks. There are filling stations for water located at the Ballfield, the gypsum dewatering facility, and the northeastern corner of the new Ash Fill Area, Phase 1B, of the

Peninsula Disposal Area. These stations are strategically placed throughout the Site to minimize the amount of time it takes to fill a truck and resume operation.

CCR placed in lifts at the Peninsula Disposal Area will be wetted to a moisture content that will prevent wind dispersal, but will not result in free liquids. The conditioned CCR will be compacted in accordance with the procedures outlined in the Site's Operations and Maintenance Manual.

As a separate form of dust prevention, the Construction Contractor maintains a sweeper truck on site. This equipment is operated on both internal and on-site hauling roads. The sweeper truck collects any fugitive CCR materials or other dust materials that may fall off the truck wheels, tailgate, or truck frame during hauling operations.

Since dusting of exposed CCR material is often initiated by vehicle or equipment traffic, the Construction Contractor actively manages the Ballfield, Stilling Pond and Peninsula Disposal Area to minimize unnecessary traffic in the work areas.

Other dust control measures that may be utilized in combination with the current measures, on an as needed basis include:

- Berms constructed as wind breaks
- Intermediate soil cover
- Chemical dust suppressants
- Limiting material drop heights
- Mobilization and use of additional water trucks

### **3.0 RECORD KEEPING**

This Plan and the following associated documents will be placed in the Site's operating record once completed, and proper notification will be provided to the State Director.

The following documents will also be made publically available on the Site's "CCR Rule Compliance Data and Information" website.

### **3.1 Citizen Input**

Citizens can provide input and submit complaints/concerns relative to fugitive dust by calling 1-844-TVA-DUST (882-3878). Comments will be logged and submitted to TVA's Coal Combustion Product Management (CCPM) Group for review and response. Upon receipt, appropriate CCPM Management personnel will investigate the complaint/concern and implement any additional dust control measures required. Examples of additional dust control measures which may be considered for implementation are described in Section 2.0. Upon completion, the results of the investigation and a description of any associated corrective measures employed by the site will be added to the log.

### **3.2 Annual CCR Fugitive Dust Control Report**

A CCR Fugitive Dust Control Report will be prepared annually to provide a summary of dust control activities for the reporting year. The report will include a description of the actions taken to control CCR fugitive dust on Site, a record of all reported citizen complaints/concerns, and a summary of any necessary corrective measures taken.

## **4.0 ASSESSMENT OF CCR FUGITIVE DUST CONTROL PLAN**

This Plan will be evaluated annually in conjunction with preparation of the annual CCR Fugitive Dust Control Report. Operating personnel at the Site have been instructed to record any evidence of fugitive dust events or deficiencies in the current fugitive dust control measures as well as report such issues to the TVA Field Supervisor. Evaluation of plan effectiveness will include a review of the Construction Contractor/TVA observation reports and any reported public complaints/concerns. Any necessary amendments or revisions required to rectify noted issues will be incorporated into the updated Plan.