

Plant: Shawnee Fossil Plant (SHF)
Date: December 6, 2024 (Placed in Operating Record)
Subject: Annual CCR Fugitive Dust Control Report
Reference: Title 40
Part 257: *Criteria for Classification of Solid Waste Disposal Facilities and Practices*
Subpart D: *Standards for the Disposal of Coal Combustion Residuals in Landfills and Surface Impoundments*
Operating Criteria: §257.80, *Air Criteria*

1. Introduction

SHF is a fossil-fueled, steam-electric generating plant operated by TVA. It is located west of West Paducah, McCracken County, Kentucky, on Metropolis Lake Road. The coal combustion residuals (CCR) disposal area (Consolidated Waste Dry Stack and Ash Pond 2 CCR Unit) is located within the northwestern portion of the SHF reservation and no longer receives CCR. The New CCR Landfill is located next to the eastern boundary of the SHF reservation and beginning in April 2021, CCR materials generated by the power generating station are processed and placed into the New CCR Landfill. An annual CCR fugitive dust control report, describing actions taken to control CCR fugitive dust and reporting citizen complaints and corrective action taken, if any, must be filed annually pursuant to 40 C.F.R. § 257.80(c).

2. Fugitive Dust Control Measures

The current CCR Fugitive Dust Control Plan states that the primary dust control measure will consist of conditioning and wetting CCR material and associated CCR management activities. This application has historically been an effective measure. Additionally, the Consolidated Waste Dry Stack and Ash Pond 2 have been capped with geomembrane and Closure Turf®. The Turf is a synthetic material that will not produce any fugitive dust. The New CCR Landfill utilizes traditional control measures such as those listed below:

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

In accordance with the SHF CCR Fugitive Dust Control Plan, the following dust control measures are in place.

- Conditioning and wetting of CCR materials in the disposal areas
- Wetting of haul roads and active stacking areas of the New CCR Landfill with water trucks as needed
- A speed limit of 15 miles per hour has been established on haul roads, and traffic patterns have been managed to common routes to aid in minimizing fugitive dust.
- Paving haul routes longer than 1,000 feet

3. Record of Citizen Complaints

The CCR Fugitive Dust Control Plan allows for public input by providing a toll-free number for citizens to contact and submit complaints and/or concerns relative to dust control. When complaints are submitted, TVA will assign the appropriate Coal Combustion Product Management (CCPM) personnel to investigate the complaint/concern and implement any additional dust control measures required.

No complaints and/or concerns have been submitted by the public during this reporting period.

4. Summary of Corrective Measures

Corrective actions have not been implemented since dust control measures appear adequate and no complaints/concerns have been submitted.