

# **Annual CCR Fugitive Dust Control Report**

## **Pawnee Station**

Prepared By: HDR

**December 13, 2021**

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## 1.0 Introduction

This Annual Coal Combustion Residuals (CCR) Fugitive Dust Control Report (Annual Report) has been prepared pursuant to the air criteria of 40 Code of Federal Regulations (CFR) Part 257.80(c). The Annual Report summarizes activities described in the CCR Fugitive Dust Control Plan (Plan) for Pawnee Station and includes the following components:

- Description of actions taken to control CCR fugitive dust;
- A record of all citizen complaints; and
- A summary of any corrective measures taken.

This Annual Report addresses the period from October 15, 2020, to October 14, 2021. The Annual Report is deemed complete when it is placed in the facility's operating record. The initial Annual Report was completed December 14, 2016. Subsequent Annual Reports are due one year after the date of completing the previous annual report, which last year was completed December 14, 2020. The completion deadline for the current Annual Report is due on December 14, 2021.

The Annual Report will be placed in the operating record. The Annual Report will also be placed on the CCR Rule Compliance Data and Information public website described in Section 6.2.

## 2.0 Facility Description and Contact information

### 2.1 Facility General Information:

Pawnee Station has two on-site landfills for the disposal of CCR. The North CCR Landfill is the original landfill and remains active. The East CCR landfill was constructed in 2018 and began receiving ash in July 2019. The two landfills use the same haul road for the majority of their route. CCR fugitive dust sources include the loading and unloading of the silo containing commingled fly ash and Flue Gas Desulfurization (FGD) material, bottom ash from the boiler, transport of fly ash from the silo and bottom ash from the temporary storage bunker to either of the two on-site landfills or offsite for beneficial use, emplacement of the fly and bottom ash in the landfills, and fugitive dust emissions from unpaved roads. Fly ash is also blended with lime solids for solidification and transportation to the East CCR landfill.

The facility's Fugitive Dust Control Plan includes activities such as conditioning CCRs for handling, controlling vehicle speeds, watering/sweeping of roads and work areas, and following processes and procedures intended to minimize dust. Because the facility is currently required to manage and monitor fugitive dust emissions as required by the Title V permit, the Pawnee staff and CCR contractor are actively engaged in proactive dust control on a continuous basis. The Plan is a formal statement of the activities and the methods specifically designed to minimize the creation of airborne dust, meeting all of the applicable requirements of the CCR Rule.

Name of Facility: **Pawnee Station**

Street: **14940 County Rd. 24**

City: **Brush**

State: **CO**

ZIP Code: **80723**

County: **Morgan**

Latitude: **40.220222** Longitude: **-103.678584**

## 2.2 Facility's Contact Information:

Citizens can log fugitive dust complaints via the dedicated email account

([PSCoCCRIquiries@xcelenergy.com](mailto:PSCoCCRIquiries@xcelenergy.com))

## 3.0 Fugitive Dust Controls

The following fugitive dust control measures were implemented during the period of October 15, 2020, to October 14, 2021.

The facility implemented the dust mitigation procedures defined in the Fugitive Dust Control Plan, Revision 2 dated November 29, 2018. A copy of the Plan can be found in the facility's operating record and on Xcel Energy's CCR Rule Compliance Data and Information public website.

As described in the Plan, the facility ensured that fly ash and bottom ash were handled only in a wetted state to minimize fugitive dust generation. Plant roads were regularly watered according to current road conditions and needs. Chemical road treatment was applied on December 18, 2020 and July 14, 2021. Weather conditions were visually monitored to enable adjustment of watering practices to minimize dust formation.

The following table specifically identifies CCR generation areas, CCR handling operations, and the preferred control measures to reduce dusting. Figure 1 illustrates these areas of the facility.

Plant Activity	Fugitive Dust Control Measures	Effectiveness
Plant Roadways	Aggregate material, chemical stabilizers, watering, and 10 mph speed limit	Effective
Submerged Flight Conveyor/Bunker	Submerged-flight conveyor transports conditioned material, and large particle size, which does not lead to dusting	Effective
Fly Ash Silo	Partially enclosed storage, ventilation to baghouse, pug mills condition the fly ash prior to transport, and use of closed pneumatic trucks when transferring dry fly ash	Effective
Ash Hauling	Watering and transport of conditioned material	Effective
Landfill	Emplacing conditioned material, compaction via wheeled roller, watered as need to form a crust, and covered by soil. Additional watering after placement as needed.	Effective

<p>Fly Ash/Lime Solids Blending and transport to East Landfill</p>	<p>Emplacing conditioned material, blending fly ash material with high moisture lime solids using excavator to form a stabilized material for transport.</p>	<p>Effective</p>
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Figure 1. Pawnee Station Site Map



## 4.0 Citizen Complaints

Citizens can log fugitive dust complaints via the dedicated email account ([PSCoCCRIquiries@xcelenergy.com](mailto:PSCoCCRIquiries@xcelenergy.com)) or via the Plant Environmental Analyst. Any citizen complaints of fugitive dust appearing to originate from the plant were to be investigated immediately. If any complaints are received, they are recorded in a log, including any follow-up or corrective actions that were taken.

### 4.1 Complaints

No citizen complaints were received and, therefore, no entries were made in the log.

### 4.2 Follow-up & Corrective Action and Documentation

No follow-up or corrective actions were necessary.

## 5.0 Plan Assessment & Effectiveness

The overall implementation and effectiveness of the Fugitive Dust Control Plan at the Pawnee Station has been successful. All CCR controls were successfully applied as needed. No alterations were required for the previously identified controls. No new CCR controls were identified. The implemented controls are functioning effectively by controlling fugitive dust emissions.

## 6.0 Recordkeeping, Notification & Internet Requirements

### 6.1 Recordkeeping

This Fugitive Dust Control Plan will continue to be assessed annually unless a need is identified earlier during an inspection or upon analysis of a citizen complaint. The Plan will be updated if any new dust control measures are implemented at Pawnee or a new CCR unit is constructed. Any citizen complaints will be logged, and appropriate corrective actions will be documented and implemented according to the Plan. For this Annual Report, the Pawnee facility map was revised to show updated haul routes and the lime solids location.

### 6.2 Internet Site Requirements

The most recent Annual Report will be placed on the facility's CCR website titled "CCR Rule Compliance Data and Information" within 30 days of placing it in the operating record.