

Wisconsin Power and Light Company

Columbia Energy Center (COL)

Annual Coal Combustion Residuals (CCR) Fugitive Dust Control Report

November 14, 2025

This report applies to the following CCR units at this facility:

CCR Surface Impoundments

COL Primary Ash Pond (closed)

COL Secondary Ash Pond

CCR Landfill

COL Dry Ash Disposal Facility Modules 1-3 (Existing CCR Landfill)

COL Dry Ash Disposal Facility Modules 4-6, 10-13 (New CCR Landfill)

Annual Coal Combustion Residuals (CCR) Fugitive Dust Control Report

November 14, 2025

Background

This report describes the actions taken to minimize fugitive CCR dust from CCR units at this facility, provides a record of citizen complaints received since the previous report, and summarizes any corrective actions taken to minimize CCR fugitive dust. This report has been developed in accordance with 40 CFR 257.80(c).

The COL facility includes CCR landfills and CCR surface impoundments. COL Dry Ash Disposal Facility Modules 1-3 are regulated as an existing CCR landfill, and Modules 4-6 and 10-13 are regulated as a new CCR landfill. A dry ash handling system was commissioned in 2023, resulting in the permanent discontinuation of sluicing at the facility. Subsequently, closure of the COL Primary Ash Pond was initiated in 2023, and all CCR from the Primary Ash Pond was excavated. The Primary Ash Pond was certified as closed in October 2025, and therefore this will be the final Fugitive Dust Control Report for that unit. All CCR has also been excavated from the Secondary Ash Pond.

Description of the Actions Taken to Control CCR Fugitive Dust

In accordance with the CCR Fugitive Dust Control Plan developed for this facility, the following measures were taken when needed to minimize CCR from becoming airborne:

- Establishing and enforcing a vehicle speed limit of 10 mph or less. Reduced speeds minimize fugitive dust generated from vehicle traffic.
- Storing fly ash in silos and/or buildings prior to transport. Enclosing CCR in silos and/or buildings minimizes exposure to conditions that could lead to airborne CCR.
- Limiting the filling of open-bodied vehicles that are transporting CCR or using covers as needed to minimize the generation of fugitive dust during transport of CCR.
- Minimizing fall distances when handling or transferring CCR. The use of telescoping chutes, best practices when handling CCR with end loaders, and other best management practices can be used to minimize the generation of fugitive dust.
- Promptly collecting CCR that is observed in vehicle loading/unloading areas to minimize the potential for CCR to become airborne.
- Applying water directly to CCR using a water truck or irrigation system. Moistened CCR is less likely to become airborne.
- Suspending CCR management activities, including placement of CCR, during excessively windy conditions to minimize CCR from becoming airborne.
- Placement of soil and/or vegetated cover to minimize exposure of CCR in inactive landfill areas to conditions that could lead to fugitive dust.

Record of Citizen Complaints

Citizen complaints pertaining to fugitive dust are managed in accordance with Alliant Corporate Policy ENV-107. Specifically, the complaint must be reported to Environmental Services (1) via phone call and (2) in writing by submitting a completed Environmental Incident Report to Environmental Services within 10 business days. Citizen complaints are tracked within the Alliant Environmental Management Information System (“ENVIANCE”).

On March 21, 2025, Wisconsin Power and Light Company (WPL) was notified by the Wisconsin Department of Natural Resources (WDNR) of an anonymous complaint regarding fugitive dust at the site. The fugitive dust issue appears to be the result of fly ash disposal activities by contractors on site during an outage on Unit 1 when conditions were windy. Further, the temperature was below freezing, which limited the facility's ability to apply water to mitigate the dust without creating icy work areas. The combination of these conditions this week led to a brief period of excessive fugitive dust. When on-site operators became aware of dust concerns, the outage team suspended use of the landfill until the wind subsided.

Summary of Corrective Measures Taken

WPL submitted a written response to WDNR on March 21, summarizing the issue. A follow-up meeting was held with WDNR on April 18, 2025, resulting in updated training for contractors and new contract language to clearly communicate expectations for fugitive dust prevention. In addition, fugitive dust prevention plans and annual fugitive dust training for COL staff have been updated.

Periodic Review of CCR Fugitive Dust Control Plan

The CCR Fugitive Dust Control Plan is reviewed annually, and updated as necessary, in conjunction with preparation of the Annual CCR Fugitive Dust Control Report [40 CFR 257.80(c)]. During the periodic review, staff evaluate each measure for controlling fugitive dust to ensure that it is still appropriate for minimizing CCR from becoming airborne at the facility, verify that the procedures for conditioning CCR prior to landfiling and the procedure for logging complaints are sufficient, and evaluate other operations changes at the facility to determine whether additional dust control measures should be added.

- END -