

# COAL COMBUSTION RESIDUAL (CCR) FUGITIVE DUST CONTROL PLAN

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**Plant Gaston**  
**October 2015**

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Professional Engineer Certification:

Based upon my knowledge, information, and belief that the content in the attached Fugitive Dust Control Plan is accurate, I hereby certify that this Fugitive Dust Control Plan meets the requirements of 40 CFR § 257.80(b)(1)-(7) (Coal Combustion Residuals Rule).

Wyman Turner, PE No. 30102, 12-31-15

Date: 10-08-15

*Name, P.E. License No., Expiration Date*

Wyman Turner  
Signature



**AMENDMENT SUMMARY**

<b>Date</b>	<b>Amendment #</b>	<b>Comments / Notes</b>

## 1.0 PURPOSE

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The purpose of this guideline is to demonstrate compliance with the fugitive dust requirements in 40 CFR § 257.80(a) and 257.80 (b)(1) through (7).

## 2.0 SCOPE

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This fugitive dust plan identifies and describes the Coal Combustion Residuals (CCR) fugitive dust control measures that Alabama Power Plant E.C. Gaston will use to minimize CCR from becoming airborne at the facility, including CCR fugitive dust originating from CCR units, roads, and other CCR management and material handling activities. Coal combustion residuals are generated from the burning of coal to produce electricity and are defined as fly ash, bottom ash, boiler slag, and flue gas desulfurization (FGD) materials.

## 3.0 REFERENCES

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40 CFR §§ 257.53, 257.80, 257.105(g)(2)

## 4.0 GENERAL INFORMATION

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EPA defines “fugitive dust” as “solid airborne particulate matter that contains or is derived from CCR, emitted from any source other than through a stack, or chimney.” 40 CFR § 257.53.

## 5.0 PROCESSES

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- 1) Identify the CCR units on plant site that are subject to the requirements in §257.80 to minimize CCR from becoming airborne.

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| <ul style="list-style-type: none"><li>• Ash Pond</li><li>• Gypsum Pond</li></ul> |
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- 2) Identify and describe the fugitive dust control measures that are applicable and appropriate to minimize CCR from becoming airborne at the units listed in Section 5.0 (1) of this plan.

Ash Pond

Fugitive dust control measures associated with Ash Pond:

1. Dry ash is handled using a closed-loop system in closed transport vehicles.
2. Dry ash that is not handled in the closed loop system is conditioned with water to minimize fugitive dust emissions.
3. Vehicle traffic on the main ash stack is restricted. Vegetation has been established by hydro seeding on the main stack.
4. Ash which is not handled dry maintains adequate moisture content throughout the dewatering and stacking process.
5. The working areas are watered to promote the re-formation of surface crust on the ash and minimize dust generation.
6. Ash that is harvested for off-site operation is maintained with adequate moisture content and is covered or tarped in transport vehicles for off-site shipment.
7. Plant personnel conduct routine inspections for fugitive dust; plant CCR personnel are notified if fugitive dust generation is observed and action is taken.
8. Areas in the wet portion of the pond are wet or vegetated to control erosion and minimize dust.

Gypsum Pond

Fugitive dust control in the gypsum pond area includes the following:

1. Gypsum is transported wet directly to the surface impoundment.
2. Regular use of the existing sprinkler system on an as needed basis.
3. Plant personnel conduct routine inspections for fugitive dust; plant CCR personnel are notified if fugitive dust generation is observed and action is taken.
4. Access to the gypsum impoundment is restricted to personnel required to conduct operations, maintenance, and inspections.

- 3) Explain how the control measures described in Section 5.0 (2) of this plan are applicable and appropriate for site conditions related to each CCR unit.

The fugitive dust control measures identified and described in this plan were adopted and implemented based upon an evaluation of site-specific conditions, engineering site visits and subject matter expert input. Conditioning CCR where needed, containing CCR where appropriate, controlling access to CCR areas, and inspecting CCR areas in the manner described in Section 5.0 (2) are determined to be applicable and appropriate dust control measures for the listed CCR units. The evaluation included assessing the effectiveness of the fugitive dust control measures for each CCR unit. Consideration was given to various factors such as site conditions, weather conditions, moisture content and physical condition of the CCR, as well as operating conditions within the CCR units.

- 4) Describe the process to emplace CCR as conditioned CCR for any CCR landfill listed in Section 5.0 (1) of this plan.

The plant does not operate any dry CCR landfills. Measures to address dry areas within the pond are described in Section 5.0 (2).

- 5) Describe the fugitive dust control measures to minimize CCR from becoming airborne on roads and at other CCR management and material handling activities.

Dust accumulation is prevented by washing down or vacuuming work areas, employing closed systems and covered trucks, wetting areas with vehicle traffic, and reducing speed of vehicles in active work areas.

Vehicle access is restricted or minimized within the Ash Pond and Gypsum Pond and speed limits are posted and observed within each CCR unit. The CCR unit roads and facility roads are watered, as needed, on a routine basis to minimize fugitive dust emissions.

See discussion of CCR units in Section 5.0 item 2) of this plan.

- 6) Describe the process to periodically assess the effectiveness of the fugitive dust control measures described in this plan.

Plant personnel will perform periodic CCR fugitive dust inspections. Based on these observations, the frequency, location and amount of dust suppression activities and processes discussed in this Plan will be adjusted to prevent dust emissions. Plant personnel understand the importance of minimizing CCR fugitive dust generation and the requirement that any CCR fugitive dust observations should be promptly addressed.

- 7) Describe the process to log citizen complaints received involving CCR fugitive dust events at the facility.

When a complaint is received regarding a CCR fugitive dust event at the facility, the complaint is documented and investigated. Appropriate steps are taken including any appropriate action, if needed.