

**2018 ANNUAL DUST CONTROL  
REPORT**

**CCR Unit**

**SCE&G Wateree Station  
142 Wateree Station Road  
Eastover, S.C. 29044**

*SCANA Environmental Services*

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### LIST OF ACRONYMS

CCR	Coal Combustion Residuals
CFR	Code of Federal Regulations
FGD	Flue Gas Desulfurization

## **SECTION 1**

### **REGULATORY REQUIREMENTS**

The CCR Rule requires owners or operators of Coal Combustion Residuals (CCR) facilities to adopt and document “measures that will effectively 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” (40 CFR 257.80).

A complete, updated copy of the Dust Control Plan is maintained in the Facility operating record and on the SCANA publicly accessible internet site in accordance with 40 CFR 257.80(a), 257.105(g), and 257.107(g). SCDHEC is notified when this Dust Control Plan, or any subsequent amended version, is placed in the Facility Operating Record and on the SCANA internet site, in accordance with 40 CFR 257.106(g).

In accordance with 40 CFR 257.80(c) an Annual Dust Control Report is prepared to document the following information:

- Description of dust control procedures implemented at the Class III Landfill, FGD Ponds, and Ash Pond.
- Record of all citizen complaints,
- Description of any corrective actions taken.

The Annual Dust Control Report is completed and placed in the Facility operating record and on the SCANA internet site, as required by 40 CFR 257.80(c), 257.105(g), and 257.107(g), within the specified timeframes. SCDHEC is notified when each Annual Dust Control Report has been placed in the Facility operating record and on the SCANA internet site, in accordance with 40 CFR 257.106(g).

## **SECTION 2**

### **FACILITY INFORMATION**

Wateree Station is located in Eastover, SC. The Facility is a Coal Fired Electric Generation Plant. The combustion of coal generates fly ash and bottom ash as well as sludge from the Flue Gas

Desulfurization (FGD) Wet Scrubber process. All solid waste that is not sent to a third party for recycle/reuse is transported to the onsite Class III Landfill.

The FGD material is a Calcium Sulfate derivative from treatment of flue gas. CCR derivative FGD letdown waters are managed for solids separation as required in onsite FGD ponds designated A and B. These ponds alternate in operation to settle CCR FGD Solids and to de-cant water from the process into the waste water treatment system. These ponds when alternating in operation are removed from service and allowed to dry and residual sludge cake is recovered using dredging and excavation equipment and transported as a moisture containing material with no free liquid to an onsite permitted landfill.

Fly ash which is reclaimed from the pollution control equipment is conveyed to an onsite ash pond or collected in silos for beneficial reuse. The CCR fly ash if destined for landfill placement is conditioned with water as recovered from the onsite ash pond. Trucks used to transport CCR are both on road and off-road trucks.

Bottom ash which is collected in a wet solids removal system is dewatered and loaded as moisture conditioned material into trucks when necessary. Trucks are covered prior to transport to the onsite landfill.

Site roads and are routinely managed with a variety of equipment as necessary. Water truck spraying of facility roads is conducted during operation as needed. Trucks used to transport CCR are road transport trucks and trailers which are tarped during transport

Landfill transport and placement occurs during daylight hours during weekday operation of the landfill. Material is trucked into the landfill site on paved roads to the operating cell. CCR placement is managed at the cell to consolidate active placement in a minimum footprint to allow traffic to be isolated to areas of placement and off of lifts of rolled CCR material. Coarser bottom ash is reserved in part and used for access routes along with water truck operation during operation. Temporary cover may be placed on inactive areas of the landfill cell as required.

- ✓ A Title V permit required “Fugitive Dust Control Plan” is maintained for the balance of plant CCR management and equipment which are not CCR Units.

## **SECTION 3**

### **DUST CONTROL PROCEDURES**

The following sections discuss dust control procedures for (1) CCR surface impoundment units, (2) CCR landfill units, and (4) facility roads. Wateree Station has implemented these dust control procedures, which are applicable and appropriate for site conditions in accordance with 40 CFR 257.80(b)(1).

#### **3.1 CCR Surface Impoundment Units**

CCR FGD slurry is collected as a slurry/cake with high water content and the wetted CCR pond surface is present at a lower elevation than its surroundings (e.g., berms) and would not be expected to cause dusting.

When the FGD slurry is dewatered and dredged it retains moisture but no free liquids and during dewatering and subsequent transportation for disposal or beneficial reuse it remains wetted with low potential for dusting. When trucks are loaded they are tarped prior to offsite transport to a permitted landfill.

Ash Pond CCR material is composed of both Fly Ash and Bottom Ash from plant operation. The CCR material at areas of excavation is dewatered with no free liquids, as conditioned it is transported by truck to the onsite landfill.

#### **3.2 CCR Landfill**

CCR is transported as necessary from the generating facility CCR Units to Wateree Station Landfill permitted as a Class III Landfill under SC Regulations R.61-107. "Solid Waste Management". The Landfill Permit number is LF 403320-1601. The following additional dust control procedures are typically implemented for active CCR landfill units.

- Open or active landfill cell areas are minimized, and the working face will be maintained as small as feasible. Active and inactive areas are managed to direct unloading and placement operations.
- During unloading activities trucks dump ash at designated pile areas which minimizes surface area for dust control.

- Placed material is pushed, spread, and compacted by equipment to maintain slope and grades to minimize erosion and allow sequential placement within active areas of operation.
- Water spray may be applied from an onsite water spray tanker truck as necessary during ash placement. Travel routes over the active cell are wetted as necessary during operation as well as paved site access roads.
- Coarser bottom ash is reserved in part for surfacing routes within the cell areas as necessary to mitigate dusting.
- During high wind conditions, unloading operations at the working face may be reduced or halted.

When active CCR operations are completed in each area, as well as prior to any long-term inactivity in each area, the areas are contoured as needed to reduce the slopes of any exposed CCR. Segregated material such as soil or FGD material are used as slope cover or as necessary to manage exposed CCR as the cell filling progresses. Temporary cover is placed as necessary over temporarily inactive areas.

### **3.3 Facility Roads**

The following dust control procedures are typically implemented for roads in active use for CCR management activities at the Facility, or that are being traveled by equipment employed in CCR management activities.

- Reduced vehicle speeds over active landfill cells are observed to reduce dust mobilization. During high wind conditions, operations and related traffic may be reduced or halted.
- During transportation, CCR is covered using well-fitted tarps to reduce the potential for CCR becoming airborne during truck transport. If tarps are not practical or dusting is observed, water may be added to CCR prior to transportation.
- During non-freezing weather, unpaved roads at the CCR Unit or Generating Facility are sprayed by water trucks during daily operation as necessary.
- Paved roads at the Generating Facility are cleaned by a sweeper/vacuum truck and, during periods of high traffic and/or dry weather, may also be sprayed by water truck.
  - ✓ All dust control procedures that have been implemented on the Facility roads are performing as expected and are controlling fugitive dust.

## **SECTION 4**

### **RECORDKEEPING AND REPORTING**

#### **4.1 Dust Control Plan Inspections**

Weekly inspections are performed to monitor dust control procedures and to assist with preparation of this Annual Report. The inspections provide the opportunity to verify that controls are in place and functioning properly. Weekly inspections are also used to identify additional procedures that may be needed to control fugitive dust.

#### **4.2 Community Involvement**

Wateree Station through its parent corporation SCANA has implemented procedures for community involvement, including “logging inquiry involving CCR fugitive dust management at the facility,” as required by 40 CFR 257.80 (b)(3). The SCANA publicly accessible internet site provides contact information for the public to contact SCE&G with questions regarding dust management at CCR Units managed by the Company.

- ✓ During the past year no inquiries involving dust control at this facility have been made.

#### **4.3 Corrective Measures**

At any time deficiencies are observed or complaints have been made regarding fugitive dust as a result of operations at the facility, action must be taken to correct and improve the dust control procedures.

- ✓ No deficiencies were observed over the course the year that required the need for corrective measures.

#### **4.4 Dust Control Plan Assessment, Updates, and Amendments**

Wateree Station periodically assesses the effectiveness of this Dust Control Plan in accordance with 40 CFR 257.80(b). The Dust Control Plan is reviewed periodically for adherence to the requirements of 40 CFR 257. If more effective prevention and control technology has been field-proven and will significantly improve dust controls, the Dust Control Plan will be amended to reflect changes. The amended Dust Control Plan will be implemented within six months of its completion.

Wateree Station will also amend this Dust Control Plan in accordance with 40 CFR 257.80(b) whenever there is a change in conditions that would substantially affect the written Dust Control Plan in effect, such as the construction and operation of a new CCR unit. The amended Dust Control Plan will be implemented before or concurrently with the initial receipt of CCR into any new CCR unit(s).

The designated person accountable for dust control at the Facility is responsible for documenting completion of each five-year review, signing a statement as to whether the Dust Control Plan is amended. Technical changes made to this Dust Control Plan will be certified by a qualified Professional Engineer as required by 40 CFR 257.80(b). SCDHEC will be notified in accordance with 40 CFR 257.106(g) when this Dust Control Plan has been amended and placed in the Facility operating record and on the SCANA internet site.

- ✓ No amendments have been made to the Dust Control Plan in 2018.