

**INITIAL WRITTEN CLOSURE PLAN**  
**40 C.F.R. PART 257.102**  
**PLANT SCHERER COAL COMBUSTION BY-PRODUCT PRIVATE INDUSTRY SOLID WASTE DISPOSAL**  
**FACILITY (PLANT SCHERER LANDFILL)**  
**GEORGIA POWER COMPANY**

**SITE INFORMATION**

**Site Name / Address**

Plant Scherer Landfill  
10986 Highway 87  
Juliette, Georgia 31046

**Owner Name / Address**

Georgia Power Company  
241 Ralph McGill Blvd  
Atlanta, GA 30308

**CCR Unit**

Plant Scherer Landfill –  
• Gypsum Storage Facility and PAC Ash Storage Facility

**Closure Method**

Close In-Place

**CLOSURE PLAN DESCRIPTION**

**§ 257.102(b)(1)(i) – Narrative description of how the CCR unit will be closed.**

Plant Scherer’s Landfill is comprised of an active Cell 1 and PAC Ash Cell and future Cells 2&3. All cells will be closed by leaving CCR in place and installing a final cover system. In accordance with § 257.102(b)(3), the written closure plan will be amended if there is a change in operation that would substantially affect the written closure plan in effect, and/or if there are unanticipated events that necessitate a revision of the closure plan.

**§ 257.102(b)(1)(iii) –Closure of the CCR unit by leaving CCR in place**

Active Cell 1 and the PAC Ash Cell were permitted and constructed with a composite liner system consisting of minimum 6-inch compacted clay layer with a maximum hydraulic conductivity of  $1 \times 10^{-5}$  cm/sec. overlain by a geosynthetic clay liner (GCL) with a maximum hydraulic conductivity of  $5 \times 10^{-9}$  cm/sec., followed by a 60-mil HDPE geomembrane and a geocomposite drainage layer overlain with a 24-inch thick sand drainage/protection layer (leachate collection & removal system). Future Cells 2&3 are permitted in the same manner as active Cell 1.

The ash subgrade for the final cover of the active and future cells will be graded to create a stable subgrade for the final cover system. In accordance with § 257.102(d), the final cover will be constructed to control, minimize or eliminate, to the maximum extent feasible, post closure infiltration of liquids into the waste and potential releases of CCR from the unit. This will be accomplished by providing sufficient grades and slopes to: 1) preclude the probability of future ponding of stormwater, sediment or slurry on top of the final cover system; 2) ensure slope and cover system stability; 3) minimize the need for further maintenance; and 4) be completed in the shortest amount of time consistent with recognized and generally accepted good engineering practices.

#### Description of Final Cover System

The final cover system for the active and future cells will consist of a GCL overlying the prepared subgrade followed by a 60-mil HDPE geomembrane, a drainage geocomposite, an 18-inch protective soil layer and a 6-inch topsoil layer capable of sustaining vegetative growth. This system is currently being evaluated for removal of the GCL and therefore the final design is not yet complete. The final cover system will minimize infiltration and erosion and meets or exceeds the requirements of 40 C.F.R. § 257.102(d)(3)(ii) in that the permeability of the final cover system will be less than or equal to the permeability of the bottom liner system. Final design will ensure the disruption of the integrity of the final cover system is minimized through a design that accommodates settlement and subsidence, in addition to providing an erosion layer for protection from wind or water erosion.

#### **§ 257.102(b)(1)(iv) – Estimate of the maximum inventory of CCR ever on-site over the active life of the CCR unit**

The CCB Landfill has an estimated total capacity of approximately 7,757,000 cubic yards. Future use of the unit will not substantially affect the written closure plan in effect.

#### **§ 257.102(b)(1)(v) – Estimate of the largest area of the CCR unit ever requiring a final cover**

The CCB Landfill has a combined area of approximately 96.3 acres that would require final cover.

#### **§ 257.102(b)(1)(vi) – Closure Schedule**

The milestones and the associated timeframes are initial estimates. Some of the activities associated with the milestones will overlap. Milestone durations reflect approximate time lengths rather than dates to implement closure. The closure completion date is based on current projected disposal rates and is subject to change.

#### Estimated Milestone Durations

Subgrade Grading & Preparation – 4 months (per cell)

Installation of final cover – 6 months (per cell)

Estimate of Year in which all closure activities will be completed - 2035

Certification Statement 40 CFR § 257.102(b)(4)

Initial Written Closure Plan

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Juliette, Georgia 31046


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**CCR Unit**

Plant Scherer Landfill

I hereby certify that the written closure plan was prepared in accordance with the requirements of 40 CFR § 257.102, and that the final cover system will meet the requirements of § 257.102(d)(3).

  
*Gary H. McWhorter* 10/17/16  
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Gary H. McWhorter  
Licensed State of Georgia, No. PE012687