

## 1. INTRODUCTION

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## Overview

Georgia Power's Plant Scherer is located about 1.5 miles south of the town of Juliette along US-23 in eastern Monroe County, Georgia. The physical address of the plant is 10986 Highway 87, Juliette, Georgia. The plant property encompasses approximately 12,000 acres. Plant Scherer operates four coal-fired units outfitted with flue gas desulfurization (FGD) equipment (scrubbers), selective catalytic reduction systems (SCRs), and baghouses.

Georgia Power operates two (2) existing coal combustion residuals (CCR) disposal cells located within the 350.3 acre permit boundary on the north portion of the plant property. Cell 1 receives sluiced gypsum from the FGD process, and the PAC/Ash Cell receives a solid mixture of comingled coal combustion ashes and powdered activated carbon (PAC) wastes primarily from baghouse operations. The Plant Scherer Coal Combustion By-Product (CCB) Landfill currently operates under Solid Waste Handling Permit No 102-009D(LI) issued by the Georgia Environmental Protection Division (EPD) on September 4, 2009 and amended by several minor modifications to the permit. This facility will now be referred to as the Plant Scherer Coal Combustion Residuals (CCR) Landfill to conform to the newly adopted Georgia Solid Waste Rules and Regulations, Rule 391-3-4-.10, Coal Combustion Residuals (Rules).

The existing cells were constructed with low permeability liners that include both soil and geosynthetic components, as well as with leachate collections systems. Cell 1 received approval to begin operations on December 21, 2010 and the PAC/Ash cell on November 10, 2011. These two cells were constructed prior to October 19, 2015; thus, they meet the definition of "existing CCR Landfill" under the Rules. All future cells constructed at the Plant Scherer CCR Landfill (i.e. Cells 2 and 3) are lateral expansions of the existing CCR landfill and will be constructed in accordance with the Rules for new or lateral expansions of CCR landfills.

## Plant Scherer CCR Landfill Permitting Requirements

This submittal addresses the permit application requirements of Rule 391-3-4-.10(9)(b) and Rule 391-3-4-.10(9)(c)1 and 391-3-4-.10(9)(c)3. for lateral expansion of CCR landfills and existing CCR landfills, respectively. The Rules are addressed in this permit application as follows:

### General Permit Requirements

- *391-3-4-.10(9)(b)1. - A completed form designated by EPD.*

The completed form is included in Section 2 of Part A of the permit application

- *391-3-4-.10(9)(b)2. - Written verification that the site conforms to all local zoning or land use ordinances.*

Zoning Confirmation is included in Section 3 of Part A of the permit application.

- *OCGA 12-8-25.1 – Is disposal facility within 5,708 yards of a site in Georgia designated as a National Historic Site?*  
Plant Scherer is not location within 5,708 yards of a National Historic Site (see the Hydrogeologic Assessment Review, performed by Bunnell-Lammons, Engineering and included A in Section 1 of Part B of the application).
- *391-3-4-.10(9)(b)3. - Property boundary survey and legal description.*  
The property boundary survey and legal description is included in the Permit Drawings included in Section 10 of Part A of this Permit Application.
- *391-3-4-.10(9)(b)4. - Financial assurance mechanism meeting the criteria in Rule 391-3-4-.13.*  
Financial Assurance is addressed in the Closure and the Post-Closure Plan included in Sections 8 and 9 of Part A of this Permit Application and will be provided once EPD concurs with the closure estimates provided by Georgia Power.
- *391-3-4-.10(9)(b)5. - A qualified professional engineer's certification that all application requirements have been met.*  
The professional engineer's certification is included in Section 4 of Part A of the permit application

Lateral Expansions to CCR Landfill Permit Requirements (apply to Cells 2 and 3)

- *391-3-4-.10(9)(c)1. New CCR landfills or lateral expansion of CCR landfills*
  - *391-3-4-.10(9)(c)1. (i) Technical data and report to comply with location restrictions in 40 CFR 257.60, 40 CFR 257.61, 40 CFR 257.62, 40 CFR 257.63, and 40 CFR 257.64.*  
  
A review of the location restrictions evaluations is included in the Revised *Hydrogeologic Assessment Review for Permit Application* (Bunnell Lammons Engineering (BLE), 2022), which is located in Section 1 of Part B of the permit application.
  - *391-3-4-.10(9)(c)1. (ii) Siting report that meets the criteria specified in "Criteria for Performing Site Acceptability Studies for Solid Waste Landfills in Georgia", Circular 14, Appendix A. The report shall be prepared by a qualified groundwater scientist.*  
  
The Site Acceptability Report, meeting these criteria, prepared when the landfill was originally permitted is included as Attachment C to the Revised *Hydrogeologic Assessment Review of Permit Application* (Bunnell Lammons Engineering (BLE), 2022), which is located in Section 1 of Part B of the permit application. The referenced report by BLE also includes a review of the siting criteria.

Upon review of the original Site Acceptability Report, Georgia EPD issued site limitations. These site limitations are included in Section 5 of the Operations Plan found in Section 5 of Part A.

- *391-3-4-.10(9)(c)1. (iii) Plan and profile sheets of the disposal area. The plan and profile sheets shall include topographical maps at contour intervals of not more than five feet for the existing ground surface elevations, initial disposal area elevations, final disposal area elevations, and buffers.*

Plans and sections of the CCR cells are included in the permit drawings in Section 10 of Part A of this permit application.

- *391-3-4-.10(9)(c)1. (iv) Design of a liner and leachate collection system as required by 40 CFR 257.70.*

The liner system meets the requirements of 40 CFR 257.70. It is discussed in the Engineering Report included in Section 2 of Part B, and details are included in the permit drawings in Section 10 of Part A of this permit application.

- *391-3-4-.10(9)(c)1. (v) Quality assurance/quality control (QA/QC) plan for the construction of the liner system, leachate collection system, and the final cover system.*

The Construction Quality Assurance Plan is included in Section 6 of Part A of this permit application.

- *391-3-4-.10(9)(c)1. (vi) An operation plan that includes at a minimum:*
  - ✓ *391-3-4-.10(9)(c)1.(vi)(I) A fugitive dust plan in compliance with 40 CFR 257.80.*
  - ✓ *391-3-4-.10(9)(c)1.(vi) (II) A run-on and run-off control plan in compliance with 40 CFR 257.81.*
  - ✓ *391-3-4-.10(9)(c)1.(vi) (III) Inspection requirements in compliance with 40 CFR 257.84.*
  - ✓ *391-3-4-.10(9)(c)1.(vi) (IV) Identification of any uniquely associated wastes as listed in 40 CFR 261.4(b)(4), the estimated quantities generated by the facility, and a description of how these wastes will be managed.*
  - ✓ *391-3-4-.10(9)(c)1.(vi) (V) Procedures for compliance with recordkeeping, notification, and posting of information to the internet as required by 40 CFR 257.105, 40 CFR 257.106, and 40 CFR 257.107.*
  - ✓ *391-3-4-.10(9)(c)1.(vi) (VI) Procedures for updating all plans and assessments periodically as required by 40 CFR Part 257.*

The Operations Plan is included in Section 5 of Part A of this permit application.

- *391-3-4-.10(9)(c)1. (vii) A groundwater monitoring plan in accordance with Rule 391-3-4-.10(6).*

The Groundwater Monitoring Plan is included in Section 7 of Part A of this permit application.

- *391-3-4-.10(9)(c)1. (viii) A closure and post-closure plan in accordance with Rule 391-3-4.10(7).*

The closure and post-closure plans are included in Sections 8 and 9, respectively, of Part A of this permit application.

- *391-3-4-.10(9)(c)1. (ix) Any additional information that may be required by the Division.*

*Existing CCR Landfills Permit Requirements (apply to Cell 1 and the PAC/Ash Cell)*

- *391-3-4-.10(9)(c)3. Existing CCR Landfills*
  - *391-3-4-.10(9)(c)3. (i) Location restriction demonstration requirements in 40 CFR 257.64.*

A review of the location restrictions evaluations performed when the landfill was originally permitted is included Section 1 of Part B.

- *391-3-4-.10(9)(c)3. (ii) Description of how the CCR landfill's operating criteria requirements in 40 CFR 257.80, 40 CFR 257.81, and 40 CFR 257.84 are met.*

The Operations Plan is included in Section 5 of Part A of this permit application.

- *391-3-4-.10(9)(c)3. (iii) Groundwater monitoring plan in accordance with 391-3-4-.10 (6). Explanation of how groundwater monitoring and corrective action criteria requirements in 40 CFR 257.90, 40 CFR 257.91, 40 CFR 257.93, 40 CFR 257.94, 40 CFR 257.95, 40 CFR 257.96, 40 CFR 257.97, and 40 CFR 257.98 are met.*

The Groundwater Monitoring Plan is included in Section 7 of Part A of this permit application.

- *391-3-4-.10(9)(c)3. (iv) Explanation of how closure and post-closure care requirements in 40 CFR 257.101, 40 CFR 257.102, 40 CFR 257.103, and 40 CFR 257.104 will be met.*

The closure and post-closure plans are included in Sections 8 and 9, respectively, of Part A of this permit application.

- *391-3-4-.10(9)(c)3. (v) Website address for information required to be posted by 40 CFR 257.105, 40 CFR 257.106, and 40 CFR 257.107.*

The postings required by 40 CFR 257.105, 40 CFR 257.106, and 40 CFR 257.107 are found on the Georgia Power website under Environmental Compliance.

## **2. APPLICATION FORM (GEORGIA EPD)**

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**Send completed application to:**  
 Environmental Protection Division, Solid Waste Management Program  
 4244 International Parkway, Suite 104  
 Atlanta, GA 30354-3902

County: \_\_\_\_\_  
 Facility Name: \_\_\_\_\_  
 \_\_\_\_\_

## CCR Unit - Application for Solid Waste Handling Permit

(Please type or print)

### I. APPLICANT INFORMATION

Owner's Name or Registered Corporation Name: **Georgia Power Company – Plant Scherer**

Facility Address: **10986 Highway 87**

Phone: **(404) 506-6505**

City: **Juliette**

State: **GA**

ZIP Code: **31046**

Authorized Official: **Aaron D. Mitchell**

Title: **General Manager – Environmental Affairs**

Mailing Address: **241 Ralph McGill Blvd. NE**

Phone: **(404) 506-6505**

City: **Atlanta**

State: **GA**

ZIP Code: **30308**

Email Address: **gpcenv@southernco.com**

Facility CCR Website(s): **www.georgiapower.com**

II. PROPERTY DETAILS: Complete below **and attach** a street or highway map indicating the site/facility location. Application must be accompanied by written zoning confirmation.

County: **Monroe County**

City: **Juliette**

Co-ordinates (in decimal degrees, near facility center): **Latitude: 33.076769, Longitude: -83.795136**

Property for Processing/Disposal is:  Owned  Leased (please complete owner details below)

Property Owner (if leased):

Address:

Phone:

City:

State:

Zip:

### III. APPLICATION TYPE:

New Permit

Major Modification to Existing Permit

Transfer of Permit

Other

IV. CCR UNITS: List all CCR units covered under this application

**Plant Scherer CCR Landfill**



V. OWNERS: List all owners of the facility (defined as holding a 5% or greater share). All owners listed below must complete the Supplemental Form for O.C.G.A. 12-8-23.1(a)(3)(B)

**Georgia Power Company**

\*While there are multiple co-owners, Georgia Power, is the Applicant and sole operator of the Plant Scherer CCR Landfill.

Based on Georgia Power's understanding of the applicable law, only Georgia Power is submitting information required in this Application.

VI. SIGNATURE

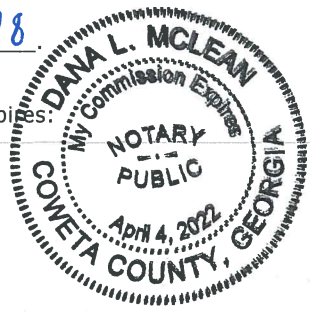
Authorized Official's Signature: 

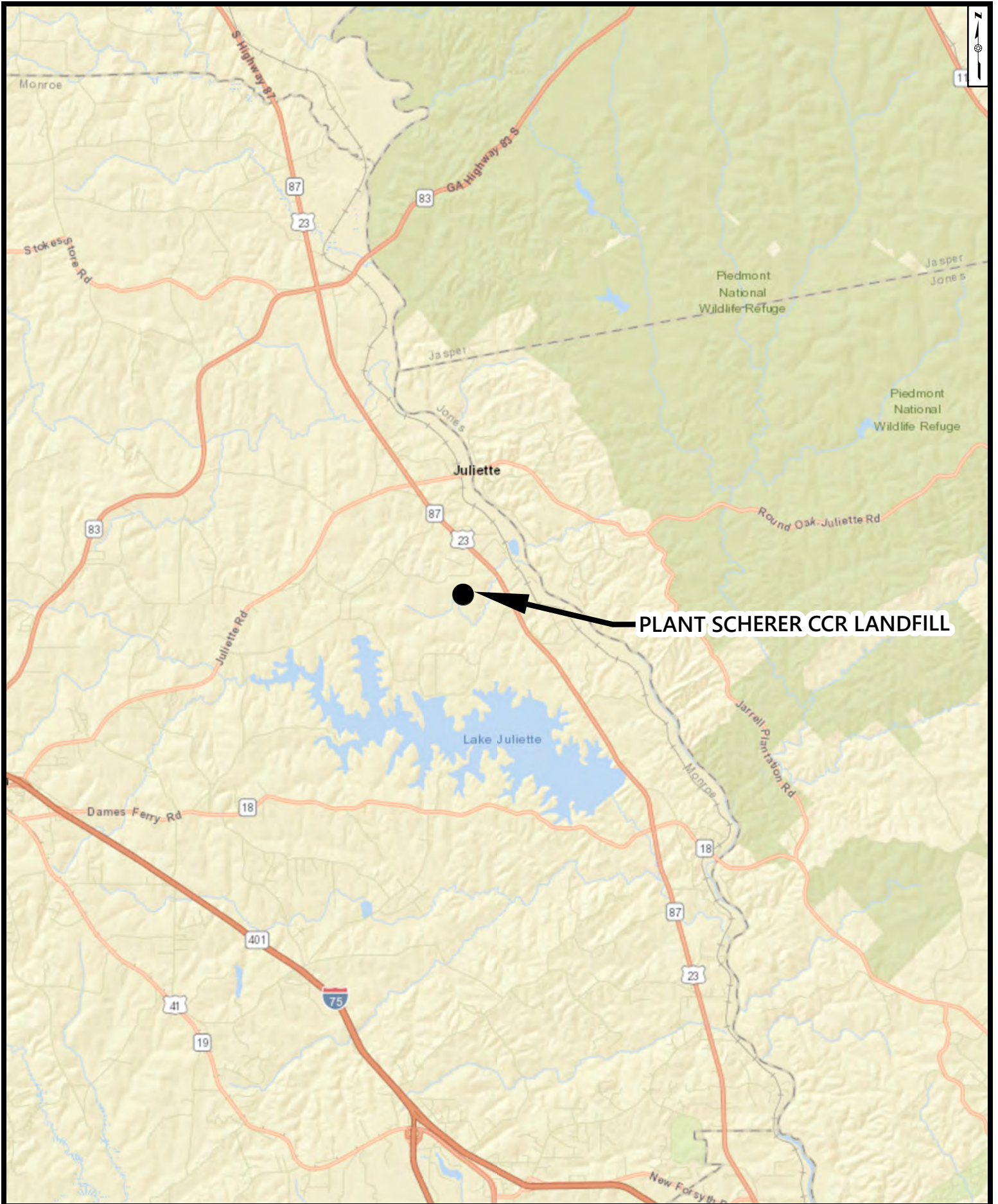
Date: 11/13/18

Sworn to and subscribed before me this 13 day of November, 2018.

Notary Public: 

My commission expires:





**PLANT SCHERER CCR LANDFILL**

Location Map

Georgia Power Company - Plant Scherer  
CCR Landfill

Date: 10/29/2018



**Send with completed application to:**  
 Environmental Protection Division, Solid Waste Management Program  
 4244 International Parkway, Suite 104  
 Atlanta, GA 30354-3902

County: \_\_\_\_\_

Facility: \_\_\_\_\_

## Solid Waste Handling Permit Supplemental Form for O.C.G.A. 12-8-23.1(a)(3)(B)

(Please type or print)

**I. INFORMATION:** This form must be completed by each owner, or an authorized official of a corporation, holding a 5% or greater ownership share. This form must be notarized.

Name of Facility Applying for Solid Waste Handling Permit: Plant Scherer CCR Landfill

Owner's Name or Registered Corporation Name: Georgia Power Company

Authorized Official: Aaron D. Mitchell

Title: General Manager – Environmental Affairs

Mailing Address: 241 Ralph McGill Boulevard

Phone: (404) 506 - 6505

City: Atlanta

State: GA

ZIP Code: 30308

Email Address: gpcenv@southernco.com

A.	Yes	No
(1) Has the applicant, or if the applicant is a corporation, partnership, or association, has any officer, director, manager, or shareholder of five percent or more of stock financial interest in the corporation, partnership, or association intentionally misrepresented or concealed any material fact in the application submitted to the director?	<input type="checkbox"/>	X
(2) Has the applicant, or if the applicant is a corporation, partnership, or association, has any officer, director, manager, or shareholder of five percent or more of stock financial interest in the corporation, partnership, or association obtained or attempted to obtain the permit by misrepresentation or concealment?	<input type="checkbox"/>	X
(3) Has the applicant, or if the applicant is a corporation, partnership, or association, has any officer, director, manager, or shareholder of five percent or more of stock financial interest in the corporation, partnership, or association been convicted by final judgment, and all appeals have been exhausted, in the State of Georgia or any federal court of any felony involving moral turpitude within three years immediately preceding the application for a permit?	<input type="checkbox"/>	X
(4) Has the applicant, or if the applicant is a corporation, partnership, or association, has any officer, director, manager, or shareholder of five percent or more of stock financial interest in the corporation, partnership, or association been convicted of any violations of any environmental laws punishable as a felony in any state or federal court within five years preceding the application for a permit?	<input type="checkbox"/>	X
(5) Has the applicant, or if the applicant is a corporation, partnership, or association, has any officer, director, manager, or shareholder of five percent or more of stock financial interest in the corporation, partnership, or association knowingly, willfully, and consistently violated the prohibitions specified in Code Section 12-8-30.7?	<input type="checkbox"/>	X
(6) Has the applicant, or if the applicant is a corporation, partnership, or association, has any officer, director, manager, or shareholder of five percent or more of stock financial interest in the corporation, partnership, or association been adjudicated in contempt of any court order enforcing any federal environmental laws or any environmental laws of the State of Georgia within five years preceding the application for a permit?	<input type="checkbox"/>	X

**B.** On a separate sheet, please provide detailed explanations for each question above answered "yes."

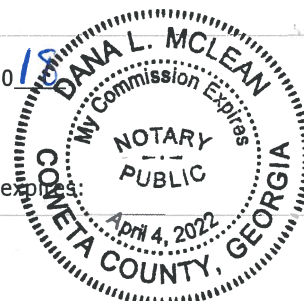
Signature: *Aaron D. Mitchell*

Date: *11/13/18*

Sworn to and subscribed before me this 13 day of November, 2018

Notary Public: *Dana L. McClean*

My commission expires:



### **3. LOCAL ZONING OR LAND USE CONFIRMATION**

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# Monroe County Board of Commissioners

Anita S. Buice, County Clerk/Manager  
Ira Watts, Jr., Road Superintendent



Gregory V. Tapley, Chairman  
John H. Ambrose, Vice Chairman  
Larry C. Evans, District 1  
Eddie B. Rowland, District 2  
George Emami, District 4

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38 West Main Street - P.O. Box 189 - Forsyth, Georgia 31029 - Phone (478) 994-7000 - Fax (478) 994-7294  
[www.monroecountygeorgia.com](http://www.monroecountygeorgia.com)

February 21, 2018

Mr. Jeffrey W. Cown  
Branch Chief  
Georgia Environmental Protection Division  
2 Martin Luther King Jr. Drive, SE  
Suite 1054, East Floyd Tower  
Atlanta, GA 30334-9000

**Re: GA Power – Plant Scherer  
Permit Application – CCR Landfill**

Dear Mr. Cown:

The Georgia Power Plant Scherer - CCR Landfill located at Plant Scherer, 10986 Highway 87, Juliette, Georgia complies with local zoning and land use ordinances.

Sincerely,

Anita Buice  
Monroe County Planning & Zoning Commission

## **4. PROFESSIONAL ENGINEER CERTIFICATION**

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HODGES, HARBIN,  
NEWBERRY & TRIBBLE, INC.

Consulting Engineers

November 09, 2022

Mr. Richard Dunn  
Director  
Georgia Environmental Protection Division  
2 Martin Luther King Jr. Drive  
Suite 1456  
Atlanta, GA 30334-9000

**Re: Professional Engineer Certification  
Rule 391-3-4-.10(9)(b)5**

Dear Mr. Dunn:

Hodges, Harbin, Newberry and Tribble, Inc. (HHNT), is an engineering firm employing professional engineers in good standing in accordance with State statutes, and the firm has experience in the design and construction of solid waste disposal facilities. R. Brant Lane, P.E., with HHNT is the Engineer of Record for this permit application. He is registered in the state of Georgia and has more than 25 years of experience in Engineering.

*"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I do hereby certify that the permit application requirements of the Georgia Environmental Protection Solid Waste Rule 391-4-.10 for Management of Coal Combustion Residuals have been met".*

ATTEST:

Hodges, Harbin, Newberry and Tribble, Inc.  
Engineering Firm

R. Brant Lane, P.E.  
Name of Professional Engineer

*RB Lane*  
Signature

11/9/22  
Date



**Education**

Bachelor of Civil Engineering  
Georgia Institute of Technology,  
1997

**Certifications**

Georgia	27185
South Carolina	21474
North Carolina	27198
Florida	62092
Virginia	48990
Alabama	24594
Mississippi	20929
Louisiana	39556
Tennessee	116167

NPDES Level II Design

**Professional Service**

Georgia Erosion and Sediment  
Control Overview Council

Georgia Soil and Water  
Conservation Commission  
Stakeholder Advisory Board

Mr. Lane is a Registered Professional Engineer with over 25 year of experience providing project management and environmental consulting services to clients throughout the Southeast United States. He has served as the Project Manager for numerous environmental and infrastructure permitting construction and design projects, including solid waste/CCR landfill, landfill gas collection, waste transfer facilities, hazardous site cleanup, mining facilities, storm water management facilities, roadway, water distribution, wastewater collection and recreation. He has performed numerous siting, feasibility evaluations and cost estimates on solid waste disposal facilities and the solid waste landfill closure alternatives.

**Relevant Experience**

- **Private Utility Client**

Senior Technical Engineer for the evaluation of coal combustion residual (CCR) management strategy at five electric power producing facilities. The work included an assessment of the CCR management strategy compliance with 40 CFR Par 257 and all state regulations on CCR. The evaluation included a review of structural stability compliance with Part 257, water handling strategy, CCR handling requirements, disposal alternatives and permitting strategy, proposed impoundment closure schedule and community acceptance of closure strategy for all CCR impoundments at each facility. The evaluation included quantifying risk and support in the development of cost estimates for the CCR management strategy.

- **Private Client, Georgia**

Senior Level Design Engineer for a CCR monofill. Facility includes approximately 13 million cubic yard CCR disposal capacity composite liner, leachate collection and CCR contact water handling facilities, wetland permitting, and new rail unloading facilities. Project duties include senior level review and strategic design, development of leachate and contact water handling facility design and quality assurance. Includes CCR handling and operations plan, closure plan and cost estimates for closure and post closure care.

- **Landfill Construction and Closure, Southeastern United States**

Lead Engineer and Senior Designer on over 40 composite lined landfill cell construction and closure construction projects. Projects include soil liners and caps, geomembrane liners and closure systems, leachate collection, leachate pumping and storage, borrow areas, alternate liner and cap system evaluations, construction quality assurance plans and management of the CQA Engineer, budget forecasting and tracking of all vendors and contractors. The work has been performed under numerous state agencies and regulations including North Carolina, Tennessee, South Carolina, Georgia, Alabama and Florida.



- **Habersham County Landfill, Georgia**  
Lead engineer and primary consultant for Habersham County solid waste program. Completed successful horizontal and vertical expansion of the landfill footprint including management of all site hydrogeologic work, landfill design, engineering report, and public participation requirements. Prepared new solid waste management plan for the county and conducted all public participation proceedings. Evaluated and prepared remediation plan for landfill gas migration issues, provides annual capital budget projections, and design and construction oversight on landfill construction
- **Private Landfill Client, Georgia**  
Engineer of record for this facility. Projects include Subtitle D Landfill closure, an exposed geomembrane cap, two municipal solid waste landfill cells, permitting adjacent tracts of land for soil borrow, landfill gas extraction system design and construction, leachate handling facilities design and construction, storm water management ponds and landfill expansion. The expansion project involves the significant expansion of a lined MSW landfill and the mining of an existing unlined MSW landfill and modification of the corrective active plan of the unlined facility. This project required extensive permitting negotiations with Georgia EPD. Continuing work on this landfill includes evaluation of landfill cell construction alternatives, construction cost estimating, capital projections and budget tracking of all capital projects.
- **Private Landfill Client, Southeastern United States**  
Senior Engineer for all aspects of landfill operations consulting on 16 landfills in Florida, Georgia, Alabama, Mississippi, and Tennessee. Provided senior level consulting on items such as interim fill plans, landfill gas migration and remediation, groundwater monitoring and remediation, landfill gas extraction systems, soil balance and borrow site development, alternate daily covers, landfill cover planning, landfill expansion planning and strategy, stormwater management, coordination with State environmental agencies, reporting and landfill stability.
- **TVA Gallatin, Tennessee Fossil Plant**  
Provided senior engineering assistance and site inspection for the peer review of the composite lined landfill construction. Inspection work focused on protective cover and leachate collection system installation and quality assurance.
- **Private Client, Georgia**  
Lead Engineer and project manager for two Subtitle D landfill closure projects totaling approximately 60 acres. Projects included all elements of design, permitting of an alternate final closure design to match available cap materials, landfill gas system modifications, bidding, contract management, management of construction quality assurance work and final certification to the Georgia Environmental Protection Division.