

1. INTRODUCTION

Georgia Power Company (Georgia Power) owns and operates Plant McIntosh located in southeast Effingham County, Georgia. The plant is located approximately 4 miles northeast of the City of Rincon, Georgia and 20 miles north-northwest of the City of Savannah, Georgia. The plant property is on the west bank of the Savannah River at Big Kiffer Point, south from mile 41.4 to mile 43.1. Plant McIntosh comprises 10 generating units: eight – 80-megawatt (MW) combustion turbine units, and two – 660-MW combined cycle units.

In accordance with the Georgia Department of Natural Resources, Environmental Protection Division (Georgia EPD) Rules for Solid Waste Management, Rule 391-3-4-.10 – *Coal Combustion Residuals (CCR)*, Plant McIntosh Coal Combustion Residual (CCR) Existing Landfill No. 4 (Landfill No. 4) is classified as an Existing CCR Landfill. Landfill No. 4 is located on the western portion of the plant property, approximately 800 feet south of Lockner Creek. The landfill is comprised of four cells: Cell 1 is closed; Cell 2A is constructed and operational; Cells 2B, 3, and 4 were previously permitted but have not been constructed.

The Georgia EPD originally issued Solid Waste Handling Permit No. 051-010D(LI) on April 8, 2005, permitting the construction and operation of Landfill No. 4 in accordance with the Design and Operational Plan approved on March 23, 2005. Landfill No. 4 was originally permitted to be developed as 4 cells with a total volume of 4,845,839 cubic yards. Georgia Power modified the design and permitted airspace in a permit modification, dated March 10, 2015. The modifications allowed for the construction of a large detention pond, a leachate and wheel wash pond, and a wheel wash make up reservoir. In order to construct the ponds and reservoirs, Georgia Power decreased the size and volume of Cell 1 from a 9-acre and 1,085,725 cubic yard cell to a 3.8-acre and 356,108 cubic yard cell. The revised design capacity of Landfill No. 4 after the modifications is 3,763,221 cubic yards.

The total constructed capacity of Landfill No. 4 (Cell 1 and Cell 2A) is 707,878 cubic yards. In accordance with Rule 391-3-4-.10 this is the “Existing CCR Landfill”. If in the future Georgia Power were to construct Cell 2B, 3, or 4, in accordance with Rule 391-3-4-.10 these cells would be considered a “Lateral Expansion of an Existing CCR Landfill”. Georgia Power would submit a modification to the permit for a Lateral Expansion and be obligated to comply with the additional applicable requirements of the Rule.

Rule 391-3-4-.10(9)(c)3(v) requires a website address for information required to be posted by 40 CFR 257.105, 40 CFR 257.106, and 40 CFR 257.107. The information required to be posted and applicable to the Plant McIntosh Landfill No. 4 is found at:

<https://www.georgiapower.com/CCRRuleCompliance>

Rule 391-3-4-.10(9)(b)4 requires a financial assurance mechanism meeting the requirements of Rule 391-3-4-.13. In compliance with applicable securities laws and regulations, GPC will provide cost estimates for closure to GA EPD under separate cover. The closure costs will include all items necessary for a third-party to complete the project in accordance with the Closure Plan as set forth herein. The closure cost estimate will be based on the largest area subject to final cover under the closure design and will be generated in current dollars. The cost estimate will be adjusted annually for inflation. GPC will provide a demonstration of financial assurance upon approval of the closure and post-closure care cost estimates by GA EPD.

Georgia Power is submitting the attached information in support of an application for a solid waste handling permit as required under Rules 391-3-4-.10(9)(a), 391-3-4-.10(9)(b), and 391-3-4-.10(9)(c)3 for

an existing CCR landfill. Each section includes a narrative portion describing the basis of design of the project, applicable regulatory requirements, and each of the engineering analyses performed to support the design and permitting of the facility.

2. APPLICATION FORM



November 15, 2018

Mr. William Cook
Program Manager
Solid Waste Management Program
Georgia Department of Natural Resources
Environmental Protection Division
4244 International Parkway, Suite 104
Atlanta, GA 30354

**Re: Georgia Power Company
Plant McIntosh CCR Landfill 4
Solid Waste Permit Application**

Dear Mr. Cook:

Please find enclosed three (3) hard copies and one (1) digital copy of an Application for Solid Waste Handling Permit and supporting documentation for the Plant McIntosh CCR Landfill 4. The enclosed permit package is being submitted to meet the requirements of the Georgia Rules for Solid Waste Management, Chapter 391-3-4-.10.

Should you have any questions regarding this submittal, please contact Erik Rolle at (404) 506-1365.

Sincerely,



Brett Mitchell
Environmental Affairs Manager
Georgia Power Company

Enclosures

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**

Facility Address: **981 Old Augusta Road Central
P.O. Box 2507**

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

City: **Rincon**

State: **GA**

ZIP Code: **31326**

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: **Effingham**

City: **Rincon**

Co-ordinates (in decimal degrees, near facility center): **Latitude: 32.34842°N; Longitude: 81.19251°W**

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

Existing CCR Landfill No. 4

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

VI. SIGNATURE

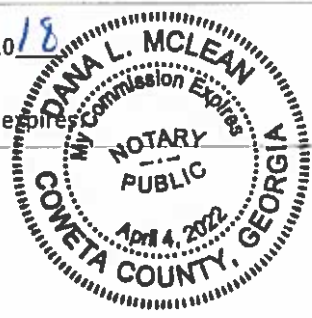
Authorized Official's Signature: *A. S. Mitchell*

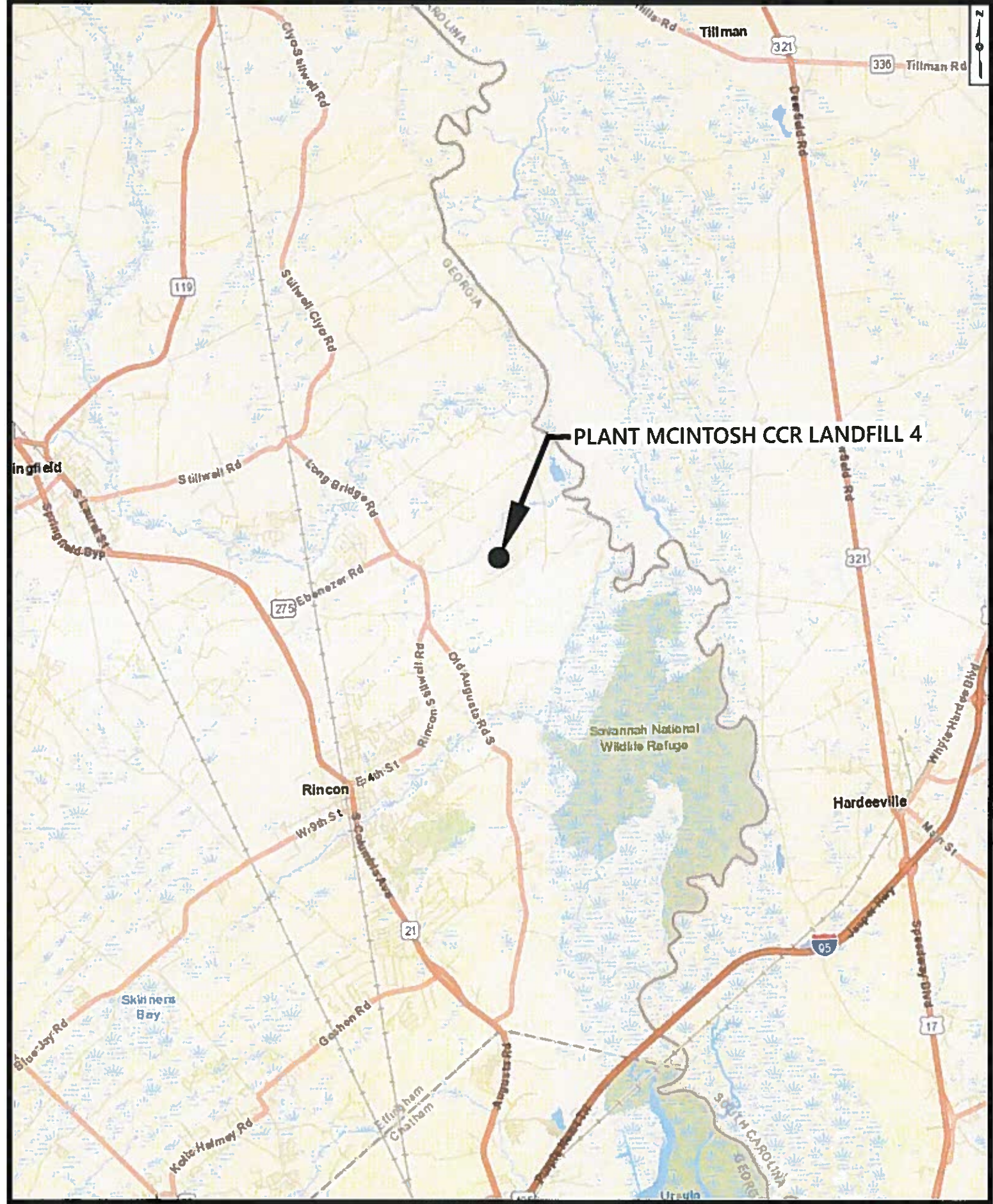
Date: *11/13/18*

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

Notary Public: *Dana Symonson*

My commission expires





PLANT MCINTOSH CCR LANDFILL 4

Location Map

**Georgia Power Company - Plant McIntosh
CCR Landfill 4**

Date: 11/1/2018



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 McIntosh Existing CCR Landfill No. 4**

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 Blvd., NE**

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."

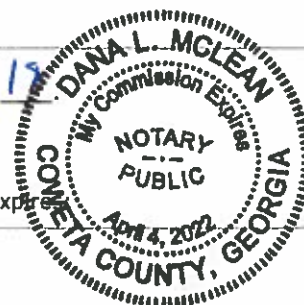
Signature: *Aaron D. Mitchell*

Date: *11/13/18*

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

Notary Public: *Dana L. McGlean*

My commission expires



3. LOCAL ZONING OR LAND USE CONFIRMATION





Effingham County Development Services

601 North Laurel Street
Springfield, Georgia 31329
Phone: (912) 754-8050
Fax: (912) 754-8450

January 30, 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 McIntosh
Permit Application – CCR Landfill #4**

Dear Mr. Cown,
The Georgia Power Plant McIntosh – CCR Landfill # 4 located at 981 Old Augusta Road Central, Rincon, Georgia complies with local zoning and land use ordinances.

Sincerely,

R.C. Barenchik
Zoning Administrator
Effingham County, Georgia
912-754-8050 x4502
rcbarenchik@effinghamcounty.org

4. PROFESSIONAL ENGINEER CERTIFICATION

Plant McIntosh Coal Combustion Residuals (CCR) Landfill No. 4 was permitted on April 8, 2005 when the Georgia Department of Natural Resources, Environmental Protection Division (Georgia EPD) issued Solid Waste Handling Permit No. 051-010D(LI). The permit allowed the construction and operation of Landfill No. 4 in accordance with the Design and Operational Plan approved on March 23, 2005. This report fulfills the requirements for an application for a Solid Waste Handling Permit for Landfill No. 4 as an Existing CCR Landfill in accordance with Rules 391-3-4-.10(9)(a), 391-3-4-.10(9)(b), and 391-3-4-.10(9)(c)3.

GEI Consultants, Inc. (GEI), 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. John M. Trast, P.E., with GEI 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 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 application requirements of the Georgia Environmental Protection Division Solid Waste Rule 391-3-4-.10 for Management of Coal Combustion Residuals have been met."



ATTEST:

GEI Consultants, Inc.
Engineering Firm

John Mathew Trast, P.E., D.GE
Name of Professional Engineer

John M. Trast
Signature

9/30/2022
Date