

# INTRODUCTION

## AP1 LANDFILL

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The former Plant Arkwright property owned by Georgia Power is located in Bibb County, approximately six miles northwest of Macon, Georgia. Commercial operation of the plant began in 1941 and consisted of four 40-megawatt units and produced approximately 25,000 tons of coal combustion residuals (CCR) annually. The plant was retired in 2002 and decommissioned in 2003. Power is no longer being generated onsite; only a substation remains active on the plant property.

AP1 Landfill was initially constructed as a surface impoundment prior to 1958 and was used to dispose of the plant's CCR material. The footprint of the CCR unit encompasses 31.22 acres. AP1 Landfill was closed with two feet of soil cover and vegetated in 1990. In 2004 and 2007, the CCR unit was regraded and slope improvements were completed by Georgia Power. A closure certificate was issued for AP1 Landfill by the Georgia Environmental Protection Division (EPD) on July 30, 2010, under Solid Waste Handling Permit Number 011-030D(LI).

AP1 Landfill is exempt from the requirements in 40 CFR Part 257 Subpart D - Standards for the Disposal of Coal Combustion Residuals in Landfills and Surface Impoundments in accordance with § 257.50(d), which states that the subpart does not apply to CCR landfills that have ceased receiving CCR prior to October 19, 2015. AP1 Landfill is, however, subject to the requirements of Georgia Solid Waste Management Rule 391-3-4-.10, including the requirement for a solid waste handling permit application to be submitted to EPD. The CCR unit is defined as an Inactive CCR Landfill per Georgia Solid Waste Management Rule 391-3-4-.10.

Georgia Power plans to remove the CCR from AP1 Landfill. The CCR will be excavated from AP1 Landfill area and then transported and disposed of in a permitted facility that has been approved to accept CCR or sold to an ash marketer as beneficial reuse. The AP1 Landfill area will be regraded and vegetated after CCR removal.

In addition to general permit requirements, this permit application includes the following sections:

- Groundwater Monitoring Plan,
- Closure Plan,
- Closure Plan drawings,
- Limited Hydrogeological Assessment Report, and
- Engineering Report.

Since the CCR unit has ceased receiving waste and will not have an operational phase, information pertaining to location restrictions, air criteria, and run-on and run-off management during the removal of CCR is addressed in the updated Closure Plan with supporting information provided in the Engineering Report. Procedures identifying how the CCR, stormwater, and contact water will be handled during the removal process are provided in the Closure Plan and on the Closure Plan drawings.

### **AP1 Landfill Permitting Requirements**

This permit application addresses the permit application requirements of Rules 391-3-4-.10(9)(b) and 391-3-4-.10(9)(c)4. for Inactive CCR landfills. The locations within the application are as indicated in the following table:

**CCR UNIT - SOLID WASTE HANDLING PERMIT APPLICATION FOR AP1 LANDFILL  
RULE 391-3-4-10(9)**

**CCR UNIT FACILITY TYPE: INACTIVE CCR LANDFILL**

Rule No.	Requirement	Application Location	Comments
<b>General Permit Requirements:</b>			
391-3-4-.10(9)(b)1.	A completed form designated by EPD	Part A - Section 2	-
391-3-4-.10(9)(b)2.	Written verification that the site conforms to all local zoning or land use ordinances	Part A - Section 3	-
391-3-4-.10(9)(b)3.	Property boundary survey and legal description	Part A - Section 4	The permit boundary survey and legal description are included in Section 4, and the permit boundary is shown in the Closure Plan drawings.
391-3-4-.10(9)(b)4.	Financial assurance mechanism meeting the criteria in Rule 391-3-4-.13	Part A - Section 5	The FA mechanism will be provided once EPD concurs with the cost estimates.
391-3-4-.10(9)(b)5.	A qualified professional engineer's certification that all application requirements have been met	Part A - Section 6	-
<b>Inactive CCR Landfill Requirements:</b>			
391-3-4-.10(9)(c)4.	Inactive CCR landfills must meet requirements subparagraphs (9)(c)3.(i)-(iv) of this Rule for an existing CCR landfill.	<i>See the existing CCR landfill requirements below.</i>	-
<b>Existing CCR Landfill Requirements:</b>			
391-3-4-.10(9)(c)3.(i)	Location restriction demonstration requirements in 40 CFR 257.64.	Part B - Section 3	-
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.	Part A - Section 8	An updated Closure Plan is included to address CCR removal activities.
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.	Part A - Section 7	-
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.	Part A - Section 8	An updated Closure Plan has been provided to address CCR removal. A Post-Closure Plan is not required.

## **2. CCR UNIT – SOLID WASTE HANDLING PERMIT APPLICATION**

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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

Facility Address: East of 5155 Arkwright Road

Phone: (404) 506-6505

City: Macon

State: GA

ZIP Code: 31211

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): N/a for Inactive CCR Landfill

**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: Bibb

City: Macon

Co-ordinates (in decimal degrees, near facility center): 32.91944444 N, 83.69833333 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

AP1 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

VI. SIGNATURE

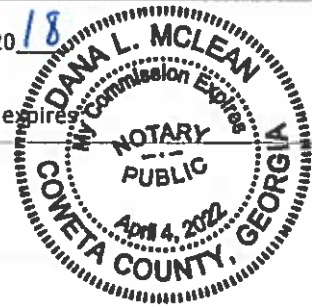
Authorized Official's Signature: *A. D. Mitchell*

Date: *11/13/18*

Sworn to and subscribed before me this *13* day of *November*, 20*18*

Notary Public: *Dana L. McLean*

My commission expires



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: Former Plant Arkwright AP-1 Landfill

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

Authorized Official: Aaron D. Mitchell

Title: General Manger – Environmental Affairs

Mailing Address: 241 Ralph McGill Boulevard

Phone: (404) 506-6505

City: Atlanta

State: GA

ZIP Code: 30308

Email Address: [gpcenv@southernco.com](mailto: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"/>	<input checked="" type="checkbox"/>
(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"/>	<input checked="" type="checkbox"/>
(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"/>	<input checked="" type="checkbox"/>
(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"/>	<input checked="" type="checkbox"/>
(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"/>	<input checked="" type="checkbox"/>
(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"/>	<input checked="" type="checkbox"/>

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

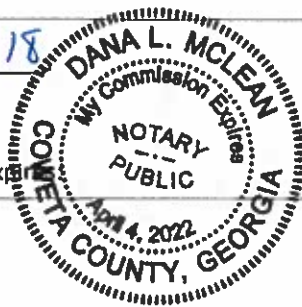
Signature: *A. D. Mitchell*

Date: *11/13/18*

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

Notary Public: *Dana L. McLean*

My commission expires



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

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**ROBERT A.B. REICHERT**  
MAYOR

OFFICE OF THE MAYOR

**Macon-Bibb County**

700 POPLAR STREET  
P.O. BOX 247  
MACON, GEORGIA 31202-0247  
(478) 751-7170  
FAX (478) 751-7931

February 23, 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 – Former Plant Arkwright  
Permit Application – CCR Landfill**

Dear Mr. Cown:

The Georgia Power Former Plant Arkwright - CCR Landfill located near 5001 Arkwright Road, Macon, Georgia complies with local zoning and land use ordinances.

Sincerely,

Robert A.B. Reichert  
Mayor



## **4. PROFESSIONAL ENGINEER CERTIFICATION**

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November 14, 2018

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

**Re: Professional Engineer Certification – AP1 Landfill  
CCR Unit – Solid Waste Handling Permit Application  
Rule 391-3-4-.10(9)(b)5.**

Dear Mr. Dunn:

JACOBS 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 similar facilities. Michael T. Feeney, with JACOBS is the Engineer of Record for this permit application. He is registered in the state of Georgia and has more than 39 years of experience in Engineering.

*I certify under penalty of law that this AP1 Landfill CCR Unit Solid Waste Handling Permit Application, dated November 2018, 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, except when noted. As directed by Georgia Power, the following items have not been included in this permit application package and will be submitted at a later date: 1) financial assurance mechanism covering AP1 Landfill closure and post-closure cost estimates and 2) a property/permit boundary that has been stamped by a Registered Land Surveyor. I do hereby certify that all application requirements except those noted above have been met in accordance with Georgia Environmental Protection Division Rules.*



**ATTEST:**

JACOBS

**Engineering Firm**

Michael T. Feeney

**Name of Professional Engineer**

Michael T. Feeney  
**Signature**

11-14-18  
**Date**