

INTRODUCTION

AP3 LANDFILL AND MONOFILL

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 that 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.

AP3 Landfill was initially constructed as a surface impoundment prior to 1958 but did not receive CCR until the 1970s. The CCR unit was closed in accordance with solid waste landfill regulations specified in the Georgia Rules for Solid Waste Management, Chapter 391-3-4, in effect at the time of its closure in 2010. The closed footprint of AP3 Landfill encompasses 31.54 acres. A Closure Certificate was issued by the Georgia Environmental Protection Division (EPD) on August 19, 2010 for AP3 Landfill and a separate disposal area identified as Monofill.

The Monofill is located just east of AP3 Landfill and was approved by EPD in January 1994 under Solid Waste Handling Permit 011-025D(LI) as a private industrial landfill to accept only waste from Georgia Power. This permit allowed for a five-phase, 20.4-acre disposal area; however, only the first phase of the landfill was constructed and used. The closed footprint of Monofill encompasses 4.08 acres. AP3 Landfill and Monofill are adjacent and considered to be separate phases of the permitted facility.

A minor modification was approved by EPD on September 2, 2008, which combined AP3 Landfill and Monofill within a revised property boundary, updated closure plan details, and modified the groundwater monitoring network. Closure construction of AP3 Landfill and Monofill was completed in 2009 utilizing a geosynthetic clay liner (GCL) overlain by 18 inches of cover soil. The Closure Certificate issued by EPD in 2010 for AP3 Landfill and Monofill initiated the post-closure care period for the CCR unit.

AP3 Landfill and Monofill are 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. These CCR units are, 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. These CCR units have been combined in this application to remain consistent with the existing solid waste handling permit. The resulting CCR unit is referred to as AP3 Landfill and Monofill and is defined as an Inactive CCR Landfill per Georgia Solid Waste Management Rule 391-3-4-.10.

As described in this application, the CCR unit closed in 2010 in a manner acceptable to EPD; therefore, no further closure construction is planned. However, this application does include a Closure Certification as mentioned below.

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

- Groundwater Monitoring Plan,
- Closure Certification,
- Post-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, run-on and run-off management, and inspection requirements is addressed in the updated Post-Closure Plan with supporting information provided in the Engineering Report.

AP3 Landfill and Monofill 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 AP3 LANDFILL & MONOFILL
RULE 391-3-4-10(9)**

CCR UNIT FACILITY TYPE: INACTIVE CCR LANDFILL

Rule No.	Requirement	Application Location	Comments
General Permit Requirements:			
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 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 approves 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	-
Inactive CCR Landfill Requirements:			
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>	-
Existing CCR Landfill Requirements:			
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 9	Run-on and run-off controls for CCR landfills and inspection requirements for CCR landfills are addressed in the updated Post-Closure Plan.
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 Part A - Section 9	A Closure Certification is provided in Section 8, and a Post-Closure Plan is in Section 9.

2. CCR UNIT – SOLID WASTE HANDLING PERMIT APPLICATION

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: Approx. 0.3 miles east of US Hwy 23 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): 32.92777778 N, 83.70694444 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

AP3 Landfill/Monofill

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

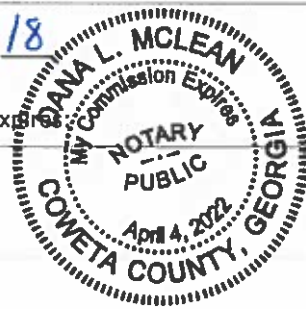
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18

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-3 Landfill/Monofill

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

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."

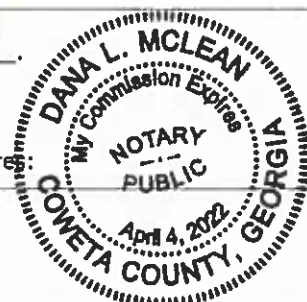
Signature: *Aaron D. Mitchell*

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



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

November 19, 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 – AP3 Landfill and Monofill
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 AP3 Landfill and Monofill 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 item has not been included in this permit application package and will be submitted at a later date: 1) financial assurance mechanism covering AP3 Landfill and Monofill closure and post-closure cost estimates. I do hereby certify that all application requirements except that 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

11-19-18
Date