

# CLOSURE PLAN

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## R6 CCR LANDFILL PLANT YATES COWETA COUNTY, GEORGIA

FOR



# Georgia Power

October 2025



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## **1. GENERAL**

The Plant Yates inactive R6 CCR Landfill, operated under Solid Waste Handling Permit 038-011D(LI) issued by the Georgia Environmental Protection Division (EPD) on May 17, 1985. R6 is an Inactive CCR Landfill as defined in the Georgia Rules for Solid Waste Management, 391-3-4-.10(2)(a)(3) in that it no longer received CCR on or after October 19, 2015.

R6 is being closed in a manner that minimizes the need for further maintenance and the potential of post-closure releases of contaminants to groundwater. The written closure plan presented subsequently in this document and the Closure Drawings included in Section 9 of Part A of the permit application present the closure design and provide guidance on the sequence of closure. These documents are supplemented by engineering analyses and calculations contained in the Engineering Report in Part B of the permit application.

## **2. NOTIFICATION**

Georgia Power notified EPD of its intent to close the R6 CCR Landfill, Solid Waste Handling Permit 038-011D (LI), in a letter dated November 4, 2015 shortly after receiving its last load of waste on October 18, 2015.

## **3. AMENDMENTS OF THE CLOSURE PLAN**

Georgia Power must amend the written Closure Plan whenever:

- There is a change in the operation of the CCR unit that would substantially affect the written closure plan in effect; or
- Before or after closure activities have commenced, unanticipated events necessitate a revision of the written closure plan.

Georgia Power must amend the closure plan at least 60 days prior to a planned change in the operation of the facility or CCR unit, or no later than 60 days after an unanticipated event requires the need to revise an existing written closure plan. If a written closure plan is revised after closure activities have commenced for a CCR unit, Georgia Power will amend the current closure plan no later than 30 days following the triggering event.

Georgia Power will obtain a written certification from a qualified professional engineer that the amendment of the written closure plan meets the requirements of the rules.

## **4. BOUNDARY AND LEGAL DESCRIPTION**

A survey drawing and legal description of the permit boundary, prepared by a Registered Professional Surveyor, are included on Sheet 3 of the Closure Plan Drawings in Section 9 of this permit package.

## 5. CLOSURE PROCEDURES

### 5.1 OVERVIEW

Georgia Power Company (Georgia Power) initiated closure of R6 in the 3rd quarter of 2014 and last received waste on October 18, 2015. R6 is being closed in place and the closure construction is broken into 3 phases. Phase 1 and 2 closure operations have consisted of closing 68 acres of the unit in place in accordance with the traditional soil final cover system. The final cover system consists of an 18" clayey soil layer and a 6" topsoil layer. The site was graded to prevent erosion by diverting stormwater run-on around R6 and by directing run-off into an interior ditch which flows to the primary stormwater drainage ditch leading to the Plant Yates Ash Pond 2 (AP-2). The remaining 14 acres of the R6 CCR Landfill final cover system will be closed in Phase 3.

The written closure plan presented subsequently in this document and the Closure Drawings included in Section 9 of Part A of the permit application present the closure design for the Phase 3 closure. These documents are supplemented by engineering analyses and calculations contained in the Engineering Report in Section 2 of Part B of the permit application.

### 5.2 FUGITIVE DUST CONTROL PLAN

This fugitive dust control plan identifies and describes the CCR fugitive dust control measures that Georgia Power will use to minimize CCR from becoming airborne at the facility, including CCR fugitive dust originating from roads, and material handling activities. GA EPD State CCR Rule 391-3-4-.10(2)(a) (incorporating 40 CFR § 257.53 by reference) defines "fugitive dust" as "solid airborne particulate matter that contains or is derived from CCR, emitted from any source other than through a stack, or chimney."

This plan identifies and describes the CCR fugitive dust control measures that Georgia Power will use during closure construction to minimize airborne CCR due to construction and related activities associated with closure of Plant Yates R6 CCR Landfill. The CCR fugitive dust control measures that will be used are presented below:

- Fugitive dust originating from the closure activities will be controlled using water suppression or polymer tackifiers.
- CCR that is transported via truck for disposal is conditioned to a moisture content appropriate to reduce the potential for fugitive dust.
- Water suppression or polymer tackifiers will be used as needed to control fugitive dust on facility roads used to transport CCR and other CCR management areas.
- Speed limits will be utilized to reduce the potential for fugitive dust.
- Trucks used to transport CCR will be filled to or under capacity to reduce the potential for material spillage.

The fugitive dust control measures described above were selected based upon an evaluation of site-specific conditions for the Plant Yates R6 CCR Landfill closure, including the physical properties of CCR, site conditions, weather conditions, and operating conditions.

Georgia Power and construction personnel will assess the effectiveness of the control measures by performing visual observations of the areas and implementing appropriate corrective actions

for fugitive dust, as necessary. Logs will be used to record the utilization of water-spray equipment.

Any complaint received from a citizen regarding a CCR fugitive dust event at the facility will be documented and investigated. Appropriate steps will be taken, including any corrective action, if needed.

### 5.3 STORMWATER AND CONTACT WATER MANAGEMENT

Stormwater, or non-contact water runoff is routed around the unit and is conveyed (e.g. via pumps) to existing surface water management system (ditches, channels and drop inlets) until the R6 closure is complete. The final cover system will be graded to promote drainage to the final surface water management system in accordance with NPDES Construction Storm Water or Industrial Storm Water permit(s). Additionally, stormwater run-off will be directed to the primary stormwater drainage ditch leading to AP-2. Following completion of the closure by removal activities at AP-2, AP-2 east will be utilized for plant operations, serve as the Plant's new service water pond and will continue to be managed in accordance with NPDES GA0001473. See the Engineering Report appendix for previously permitted R6 design plans and design calculations. Also, the Schnabel Engineering Memorandum describes drainage improvements related to the stormwater drainage ditch located between R6 and the AMA.

## 6. FINAL COVER SYSTEM

Upon closure, all CCR received at the R6 CCR Landfill will be placed and covered in accordance with the plans. The final cover will consist of a minimum 18-inch infiltration barrier layer of clayey soil placed and compacted in accordance with the design specifications and a 6-inch minimum surface layer of top soil capable of supporting vegetation growth. A list of testing methods, frequency of testing, and material specifications is provided in the Construction Quality Assurance Plan included in this permit application.

The final cover will be compacted so as to preclude any excessive infiltration of surface water and to provide a hydraulic conductivity of  $1 \times 10^{-5}$  cm/sec or less. The material to be used for the final cover will be from the qualified borrow area. In order to reduce the potential for desiccation of the infiltration barrier layer, the 6-inch topsoil layer will be placed immediately after the barrier layer has been placed and compacted. The final cover and site will be graded so as to prevent erosion by diverting run-on around the landfill and by directing run-off into the Plant Yates NPDES Permit GA0001473. The final slopes will not be steeper than 3 horizontal to 1 vertical. The minimum slope will be 3%.

The final cover system will meet the following standards:

- a. Control, minimize or eliminate, to the maximum extent feasible, post-closure infiltration of liquids into the waste and releases of CCR, leachate, or contaminated run-off to the ground or surface waters or to the atmosphere;
- b. Preclude the probability of future impoundment of water, sediment, or slurry;
- c. Include measures that provide for major slope stability to prevent the sloughing or movement of the final cover system during the closure and post-closure care period;

- d. Minimize the need for further maintenance of the CCR unit;
- e. Be completed in the shortest amount of time consistent with recognized and generally accepted good engineering practices; and
- f. Minimize disruption of integrity due to settling and subsidence.

## 7. CERTIFICATION OF CLOSURE

Upon completion of closure activities, a professional engineer registered in Georgia will prepare and Georgia Power will submit a closure construction report to the Director. The closure construction report will be completed on forms provided by the Division. Additionally, the closure report will include an as-built plan of the grades at the time of closure.

Within 30 days of completion of closure, Georgia Power will prepare a notification which will include certification from a qualified professional engineer registered in Georgia verifying that closure has been completed in accordance with this closure plan. Georgia Power has completed the notification when it has been placed in the facility's operating record.

## 8. DEED NOTIFICATION

Concurrent with the submission of the closure construction report to the Director, Georgia Power will submit confirmation to the Director that a notation on the property deed, inclusive of the R6 permit boundary, has been recorded. This recording will notify any potential purchaser of the property in perpetuity that the land has been used as a CCR landfill and that its use is restricted under the post-closure care requirements of the GA EPD CCR Rule. The deed will include the dates that the R6 CCR Landfill operations commenced and terminated, an accurate legal description of R6 CCR Landfill location, and a description of the type of CCR that have been deposited in the R6 CCR Landfill. Within 30 days of completing this deed notification, Georgia Power will place this documentation in the operating record for the Plant.

## 9. ESTIMATE OF CCR QUANTITY

The estimated volumes of CCR placed in R6 are presented in Table 1 below.

Table 1. Estimated CCR Quantity

	Quantity of CCR (cubic yards)
R6 CCR Landfill	7,000,000

## 10. VEGETATION PLAN

During temporary lapses in construction activity, temporary stabilization measures are installed on exposed areas and in accordance with the Disturbed Area Stabilization (With Mulching Only) or Disturbed Area Stabilization (With Temporary Seeding) details in the closure drawings.

At the completion of closure activities all exposed areas will be grassed and maintained in accordance with the following schedules. Final surfaces will be seeded and mulched within 30-days of final cover

placement. Permanent covers which are slow to establish will receive temporary seeding. The fertilizer requirements are suggested. Planting dates, fertilizer rates, and seeding rates will meet the requirements in the Manual for Erosion and Sediment Control in Georgia.

BROADCAST													
SPECIES	RATES	PLANTING DATES											
		J	F	M	A	M	J	J	A	S	O	N	D
Sericea Lespedeza (unscarified)	75 lbs/ac	x	x	p	p	p	p	p	p	x	x	x	X
Wilmington Bahia	30 lbs/ac	p	p	x	x	x	p	p	p	p	p	p	p
Common Bermuda Unhulled	6 lbs/ac	x	x								x	x	x

Lespedeza, Bahia, and Bermuda may be mixed with tall fescue.

X – Optimum dates, p – permissible, but marginal dates

**NOTES:**

1. All seeding rates are pure live seed rates.
2. All seeding will be mulched with clean dry hay at the rate of 2.5 tons per acre. Mulch will be anchored by pressing the mulch into the soil immediately after the mulch is spread using a packer disk or disk harrow or equivalent piece of equipment.
3. Temporary seeding should also complement permanent seeding to produce a suitable cover while the permanent grasses germinate.
4. Disturbed slopes greater than 3%, including soil stockpiles, are to be mulched immediately.
5. D.O.T. or County Extension seed type, seed rates, fertilizer requirements, etc. may also be used in lieu of the table above.

FERTILIZATION (Cool Season Grasses)			
Year	N-P-K	Rate	N Top Dressing Rate
First	6-12-12	1500 lbs/ac	50-100 lbs/ac
Second	6-12-12	1000 lbs/ac	-
Maintenance	10-10-10	400 lbs/ac	30 lbs/ac

- (1) Apply in spring following seeding.
- (2) Apply in split applications when high rates are used.
- (3) Apply in 3 split applications.
- (4) Apply when plants are pruned.
- (5) Apply to grass species only.
- (6) Apply when plants grow to height of 2"-4".

## 11. EROSION AND SEDIMENTATION CONTROL

The disposal areas are confined within a perimeter drainage ditch which diverts all potential run-on around the disposal site and to Ash Pond 2, which will be utilized for plant operations in accordance with NPDES Permit GA0001473. All necessary erosion control measures will be maintained, repaired and/or

replaced as necessary throughout the closure period. Additional measures will be taken as required or as directed by the Engineer to minimize erosion of soil.

## **12. ON-GOING PLANT OPERATIONS AND MAINTENANCE**

Plant operations and maintenance will occur within the permit boundary but outside the limits of the final cover system (e.g. outside the waste boundary). Activities not directly affecting the final cover system, such as those needed to construct, maintain, replace or repair systems for electric power generation or its delivery (such as subsurface piping, electrical appurtenances, transmission structures, etc.) may be conducted at the Permittee's discretion.

However, should utility operations be required such that the final cover system is required to be disturbed, EPD will be notified prior to construction. Upon completion of construction, EPD will be provided with a report documenting the repair of the final cover system. The repair documentation will include as-builts, CQA information and certification from a professional engineer licensed to practice in Georgia.

## **13. COST OF CLOSURE AND FINANCIAL ASSURANCE**

The closure cost estimate is provided in Table 1. In compliance with applicable securities laws and regulations, unredacted cost estimates for closure costs will be provided to EPD under separate cover. The costs include all items necessary for a third-party to complete closure activities in accordance with the Closure Plan. The cost estimates provided to EPD are based on an area of 14 acres and 2025 unit costs and will be adjusted annually for inflation. GPC will provide a demonstration of financial assurance upon approval of the cost estimates by EPD.

## **14. CLOSURE SCHEDULE**

Closure activities are currently ongoing. A list of milestones is provided below that either has been or will be met over the remaining closure period:

- Install and maintain erosion and sediment control systems serving disturbed areas;
- Provide dust control for earthwork and ash handling operations. Maintain for project duration and until the area reaches final stabilization.
- Installation of clean water ditch along the eastern boundary of R6 and the AMA area;
- Install final cover system;
- Conduct site re-vegetation and restoration;
- Prepare final topographic as-built survey;
- Prepare accurate legal description of final CCR limit of waste boundary;
- Provide the closure report to the Director; and
- Submit to the Director confirmation that the notation on the property deed has been recorded.



## 15. INSPECTIONS

In accordance with 391-3-4-.10(4), which incorporates the requirements of an existing landfill 391-3-4-.10(3)(ii), Georgia Power will inspect the R6 landfill during the remaining closure activities at intervals not exceeding seven (7) days. The 7-day inspections are made by a Qualified Person and include observation and documentation of any appearance of actual or potential structural weakness and other conditions which are disrupting or have the potential to disrupt the closure activities or the safety of the landfill. Georgia Power records the results of these inspections on a form that is filed in the facility's operating record. If a potential deficiency or release is identified during an inspection, Georgia Power will remedy the deficiency or release as soon as feasible. Georgia Power will prepare documentation detailing the corrective measures taken and place it in the facility's operating record.

A Professional Engineer registered in Georgia will inspect R6 on an annual basis during the closure activities. The inspection includes observation and documentation of any appearance of actual or potential structural weakness and other conditions which are disrupting or have the potential to disrupt the closure activities or the safety of the landfill. The results of this report will be placed in the facility's operating record.

## 16. RECORDKEEPING/NOTIFICATION

Georgia Power will continue to comply with all applicable recordkeeping requirements and maintains the facility's operating record at all times. Documents will be retained for a minimum of five years as required by Georgia Rule 391-3-4-.10(8).

## 17. LEGAL DESCRIPTION

The legal description below was taken from a drawing titled "Survey of Plant Yates – R6 Ash Disposal Area Permitted Site Boundary"

All that tract or parcel of land lying and being in Land Lots 43, 44, 50 and 51 of the 4<sup>th</sup> District, Coweta County, Georgia and being more particularly described as follows:

BEGINNING at the Land Lot Corner common to Land Lots 19, 20, 45 and 46, having Georgia State Plane, West Zone, NAD83 coordinates of: N 1262995.61 and E 2076620.13; thence leave said common Land Lot Corner and run S34°28'04"W a distance of 5,173.91 feet to a point, said point being the TRUE POINT OF BEGINNING.

FROM THE TRUE POINT OF BEGINNING AS THUS ESTABLISHED, thence run S56°18'36"E a distance of 14.42 feet to a point; thence run S25°12'04"W a distance of 112.73 feet to a point; thence run S49°23'55"W a distance of 18.44 feet to a point; thence run S62°35'41"E a distance of 23.54 feet to a point; thence run S64°13'11"E a distance of 71.55 feet to a point; thence run S38°51'37"W a distance of 14.03 feet to a point; thence run S27°39'22"W a distance of 40.40 feet to a point; thence run N59°55'22"W a distance of 11.29 feet to a point; thence run S39°54'23"W a distance of 39.60 feet to a point; thence run N81°02'05"E a distance of 21.67 feet to a point; thence run N81°52'12"E a distance of 14.14 feet to a point; thence run N78°41'24"E a distance of 15.30 feet to a point; thence run S66°48'05"E a distance of 7.62 feet to a point; thence run S67°51'09"E a distance of 48.62 feet to a point; thence run S49°59'26"E a distance of 43.04 feet to a point; thence run S51°00'32"E a distance of 27.02 feet to a point; thence run S54°34'00"E a distance of 63.82 feet to a point; thence run S56°18'36"E a distance of 32.45 feet to a point; thence run

S57°15'53"E a distance of 33.29 feet to a point; thence run S52°18'21"E a distance of 27.80 feet to a point; thence run S53°28'16"E a distance of 33.60 feet to a point; thence run S53°31'51"E a distance of 28.60 feet to a point; thence run S52°25'53"E a distance of 16.40 feet to a point; thence run S52°35'41"E a distance of 21.40 feet to a point; thence run S54°00'51"E a distance of 38.64 feet to a point; thence run S53°43'37"E a distance of 13.32 feet to a point; thence run S53°42'48"E a distance of 26.05 feet to a point; thence run S45°00'00"E a distance of 9.90 feet to a point; thence run S43°09'09"E a distance of 21.93 feet to a point; thence run S43°21'48"E a distance of 24.76 feet to a point; thence run S42°23'51"E a distance of 31.14 feet to a point; thence run S45°00'00"E a distance of 26.87 feet to a point; thence run S43°09'09"E a distance of 21.93 feet to a point; thence run S47°17'26"E a distance of 17.69 feet to a point; thence run S40°17'42"E a distance of 29.05 feet to a point; thence run S70°59'47"E a distance of 24.08 feet to a point; thence run S71°47'00"E a distance of 35.60 feet to a point; thence run N85°09'29"E a distance of 24.72 feet to a point; thence run N79°01'10"E a distance of 47.47 feet to a point; thence run N77°45'52"E a distance of 54.64 feet to a point; thence run N75°28'50"E a distance of 44.87 feet to a point; thence run S87°49'45"E a distance of 56.60 feet to a point; thence run S63°26'14"E a distance of 46.26 feet to a point; thence run S60°17'39"E a distance of 37.84 feet to a point; thence run S38°14'43"E a distance of 41.61 feet to a point; thence run S39°47'17"E a distance of 63.21 feet to a point; thence run S35°50'20"E a distance of 101.46 feet to a point; thence run S28°30'10"E a distance of 20.86 feet to a point; thence run S34°02'20"E a distance of 100.51 feet to a point; thence run S38°01'30"E a distance of 20.44 feet to a point; thence run S30°42'40"E a distance of 41.78 feet to a point; thence run S38°00'13"E a distance of 81.71 feet to a point; thence run S22°31'29"E a distance of 25.03 feet to a point; thence run S27°37'59"E a distance of 86.46 feet to a point; thence run S15°31'30"E a distance of 103.79 feet to a point; thence run S16°54'58"E a distance of 92.80 feet to a point; thence run S13°22'27"E a distance of 70.12 feet to a point; thence run S15°35'34"E a distance of 44.64 feet to a point; thence run S05°54'22"E a distance of 29.15 feet to a point; thence run S05°54'22"E a distance of 58.31 feet to a point; thence run S04°59'21"E a distance of 13.05 feet to a point; thence run S02°13'39"W a distance of 73.30 feet to a point; thence run S01°00'22"W a distance of 26.76 feet to a point; thence run S00°13'23"W a distance of 35.68 feet to a point; thence run S11°47'34"W a distance of 119.30 feet to a point; thence run S16°20'32"W a distance of 49.54 feet to a point; thence run S14°51'36"W a distance of 78.50 feet to a point; thence run S32°01'00"W a distance of 28.45 feet to a point; thence run S30°18'24"W a distance of 31.98 feet to a point; thence run S30°03'40"W a distance of 56.01 feet to a point; thence run S21°51'12"W a distance of 25.77 feet to a point; thence run S08°12'21"W a distance of 6.41 feet to a point; thence run S02°05'45"E a distance of 53.72 feet to a point; thence run S32°20'57"E a distance of 33.23 feet to a point; thence run S36°04'21"W a distance of 14.73 feet to a point; thence run S43°23'57"W a distance of 39.98 feet to a point; thence run S41°57'55"W a distance of 67.36 feet to a point; thence run S44°07'50"W a distance of 29.07 feet to a point; thence run S39°10'22"W a distance of 23.32 feet to a point; thence run S41°14'24"W a distance of 21.36 feet to a point; thence run S27°40'16"W a distance of 78.88 feet to a point; thence run S37°34'43"W a distance of 697.18 feet to a point; thence run S70°56'24"W a distance of 665.27 feet to a point; thence run N58°11'31"W a distance of 554.02 feet to a point; thence run N06°22'56"E a distance of 1168.97 feet to a point; thence run N15°57'08"W a distance of 703.93 feet to a point; thence run N50°15'46"W a distance of 86.58 feet to a point; thence run N32°07'28"E a distance of 53.86 feet to a point; thence run N32°07'28"E a distance of 896.77 feet to a point; thence run N32°07'28"E a distance of 60.64 feet to a point; thence run S86°25'25"E a distance of 40.89 feet to a point; thence run N40°09'22"E a distance of 83.74 feet to a point, said point being the TRUE POINT OF BEGINNING.

Said tract or parcel of land containing 89.148 acres (3,883,279 square feet).

**TABLE 1**

**R6 Ash Monofill Closure Cost Estimate**

Item Description	Quantity	Unit	Unit Cost	Cost
<b>Administrative</b>				
1 Bonds		LS		\$25,000
2 Insurance		LS		\$20,000
<b>Project Management</b>				
3 Independent Project Manager		LS		\$5,000
4 Independent Construction Manager		LS		\$10,000
<b>Mobilization</b>				
5 Mobilization		LS		\$50,000
<b>Surveying</b>				
6 Survey (Contractor)		LS		\$5,000
7 Survey (CQA Certification)		LS		\$5,000
<b>Quality Assurance</b>				
8 CQA Report <sup>1</sup>	14	AC	\$7,800.00	\$109,200
<b>Final Cover System</b>				
9 18" Clayey Soil	33,880	CY	\$7.00	\$237,160
10 6" Topsoil	11,300	CY	\$7.00	\$79,100
11 Liner Edge Markers		LS		\$5,000
<b>Erosion Control</b>				
12 Permanent Grassing <sup>2</sup>	24	AC	\$1,500.00	\$36,000
13 Soil Amendments (e.g. fertilizer, etc.) <sup>2</sup>	24	AC	\$500.00	\$12,000
14 Silt Fencing	1,100	LF	\$4.20	\$4,620
15 Construction Exit	1	EA	\$4,500.00	\$4,500
<b>Site Security</b>				
16 Entrance Gate Certification	1	EA	\$500.00	\$500
17 Closure Signs		LS		\$500
Subtotal				\$608,580
5% Contingency				\$30,429
<b>R6 Ash Monofill Total Closure Cost Estimate</b>				<b>\$639,009</b>

NOTES:

1. CQA Report compiled on 68 acres closed to date.
2. Quantity includes 10 acre for the permanent grassing of an onsite borrow area.