



February 28, 2017

Susan W. Jackson, P.E., Manager  
Santee Cooper CCP and Waste Management  
1 Riverwood Dr.  
Moncks Corner, SC 29461

RE: Issuance of Post Closure Permit  
Closure Report Received July 8, 2016  
Santee Cooper Cross Generating Station Class 2 Landfill  
Permit #083337-1601

Dear Ms. Jackson:

Please see the attached Post Closure Permit for the Santee Cooper Cross Generating Station Class 2 Landfill, permit #083337-1601. The Department considers the site closed in accordance with the requirements for closure under Regulation 61-107.19, *Solid Waste Management: Solid Waste Landfills and Structural Fill*, as of the date of its closure certification inspection by solid waste permitting staff on August 9, 2016.

The Class 2 Landfill was closed using two different cap designs. The North and South slopes of the have been closed with a soil final cover system consisting of 18 inches of soil capable of supporting native vegetation overlying 24 inches of compacted low-permeability soil (no more than  $10^{-5}$  cm/sec), while the East and West sideslopes and Top Deck of the landfill have been capped with a composite liner final cover system consisting of an exposed 60 mil HDPE geomembrane overlying a geosynthetic clay liner (GCL). The East and West sideslopes and Top Deck will eventually serve as the base liner system for the Cross Generating Station Class 3 Landfill's Area 1B and Area 1D, both of which will piggyback up the sides and over the top of the closed Class 2 Landfill. Attention should be paid to the different ways in which each of these cap designs must be maintained during the post closure maintenance period.

The post closure maintenance period began on **August 9, 2016** with the Department's certification of closure, and ends on **August 9, 2036**, unless the Department determines otherwise. Groundwater monitoring is required annually at the time of issuance of this permit. The facility should ensure that routine post closure maintenance is conducted in accordance with the approved post-closure care plan dated March 4, 2013.

If you have any questions, please feel free to contact Roger Schweitzer at (803) 898-1330 or by email at [schweire@dhec.sc.gov](mailto:schweire@dhec.sc.gov).

Sincerely,

Juli E. Blalock, Manager  
Solid Waste Permitting & Monitoring Section-DMSWM  
Bureau of Land and Waste Management

JFL/PDB/pdb

Enclosure: Post Closure Permit

CC: John Summa - SCDHEC, Lowcountry Region BEHS - Charleston EQC Office  
Juli Blalock, Manager - SCDHEC, Solid Waste Permitting and Monitoring Section  
Marty Lindler, Manager - SCDHEC, Solid and Hazardous Waste Compliance Section  
Justin Koon - SCDHEC, Solid Waste Permitting and Monitoring Section  
File #20086



BUREAU OF LAND AND WASTE MANAGEMENT  
CLASS 2 LANDFILL POST CLOSURE PERMIT  
PERMIT No. 083337-1601

Date of Original Issuance: October 5, 1982 (as IWP-186)  
Date of Closure: August 9, 2016

Permission is hereby granted to:

Name of Facility: Santee Cooper Cross Generating Station Class 2 Landfill  
Permittee: South Carolina Public Service Authority  
Address: P.O. Box 2946101  
Moncks Corner, SC 29461-2901  
Contact: Ms. Susan Jackson, PE, Manager, CCP & Waste Management  
Phone: (843) 761-8000

to begin the post-closure care activities of a Class 2 Landfill located at Cross Generating Station, 553 Cross Station Rd., Pineville, Berkeley County, SC 29468, with UTM Coordinates of 3693659.25 N, 582116.4375 E.

This permit is issued pursuant to Sections 44-96-10 et seq. and 25A S.C. Code of Regulations Section 61-107.19, *Solid Waste Management: Solid Waste Landfills and Structural Fill*. The authority granted hereunder is subject to the requirements of the aforementioned laws and regulations and the attached conditions.

A handwritten signature in blue ink, reading "Joan F. Litton", is written over a horizontal line.

Joan F. Litton, Director  
Division of Mining and Solid Waste Management  
Bureau of Land & Waste Management

SANTEE COOPER CROSS GENERATING STATION CLASS 2 LANDFILL  
CLASS 2 LANDFILL POST CLOSURE PERMIT  
PERMIT # 083337-1601

A. SPECIAL PERMIT CONDITIONS

1. The Permittee shall adhere to the approved Closure/Post-Closure Care Plan dated March 4, 2013, and the revised Closure Plan drawings dated November 25, 2014, unless permit conditions state otherwise.
2. The landfill was certified closed on August 9, 2016. The permittee is not allowed to dispose of solid waste in the landfill.
3. The Permittee shall maintain a post-closure monitoring program that shall include provisions for the inspection and maintenance of the physical characteristics of the site. This post-closure monitoring period shall be for a minimum of twenty (20) years. The post-closure maintenance period began on August 9, 2016, and ends on August 9, 2036, unless the Department determines otherwise.
4. The Permittee shall provide continuous coverage for closure until released from financial assurance requirements, pursuant to this regulation or until released from these requirements by the Department. Post-Closure care may be increased for continued protection of human health and the environment, or decreased based upon technical rationale.

B. ENVIRONMENTAL MONITORING CONDITIONS

1. Groundwater Detection Monitoring System

- a. The Permittee shall maintain a groundwater detection monitoring system for the landfill consistent with the most recently approved Groundwater Detection Monitoring Plan and as required in R.61-107.19, Part IV, Section E.2. The groundwater detection monitoring system shall consist of monitoring wells as designated in the most recently approved Groundwater Detection Monitoring Plan and any other monitoring wells specified by the Department. Modifications to the current groundwater detection monitoring system shall be in accordance with the requirements of R.61-107.19, Part IV, Section E.2.
- b. The Permittee shall perform all groundwater sampling activities of the landfill in accordance with the most recently approved Groundwater Detection Monitoring Plan and the requirements of R.61-107.19, Part IV, Section E along with any subsequent modifications deemed necessary by the Department to uphold the intent of this permit.
- c. The Permittee shall evaluate analytical results in accordance with the most recently approved Groundwater Detection Monitoring Plan and any subsequent modifications required by the Department.
- d. The Permittee must determine during each sampling event the groundwater elevation in each well relative to mean sea level (MSL) to the nearest hundredth of a foot. All elevations should be determined on the same day. The Permittee shall determine the total depth of each well on an annual basis.
- e. Groundwater samples shall be analyzed by a laboratory certified by the State of South Carolina.

2. Assessment of Groundwater Impact

- a. If the Permittee determines that a groundwater protection standard has been exceeded for one or more constituents during routine monitoring at any monitoring well at the relevant point of compliance as listed in Appendix III of R.61-107.19, then the Permittee shall perform any necessary groundwater assessment actions in accordance with the requirements of R.61-107.19, Part IV, Section E.2.f.

3. Landfill Gas Monitoring

- a. Based on the nature of the waste, landfill gas monitoring is not required at the time of issuance of this permit. Should the Department determine that methane is of concern at this Facility, landfill gas monitoring may be required in order to comply with R.61-107.19, Part IV, Section C.21.

4. Reporting

- a. The Permittee shall submit to the Department on an annual basis, a properly bound report of findings (one paper/one electronic copy), in accordance with the following schedule:

Sampling Schedule

Report Due

No more than 60 days

prior to report submittal

September 30 (Annual Report)

It is preferable for the paper copy to contain two-sided copies for text, analytical data (laboratory and tabular format), field measurements, etc. The electronic copy must be an exact replica of the paper copy, including all required stamps and seals. Each groundwater report should contain a brief narrative of activities performed and their findings. The report should include a site figure(s) that clearly depicts the location and identity of all existing monitoring wells, and on-site structures. A comprehensive annual report shall be submitted that meets at a minimum the requirements set forth in Section E.1.h of the Solid Waste Regulations. A qualified professional registered in the State of South Carolina must sign and seal the report. In addition, the report(s) shall also make a determination as to whether the monitoring well network continues to meet requirements of Permit Condition B.1.a.

- b. The reports shall be submitted to the SCDHEC Bureau of Land and Waste Management, Division of Mining and Solid Waste, Solid Waste Permitting and Monitoring Section. In accordance with R.61-107.19 Part IV, Subpart C.16.d, the Facility is responsible for retaining records for no less than three years as part of the operating record, and should be able to provide them to the Department in a reasonable amount of time.

June 28, 2016

SCDHEC

2600 Bull Street

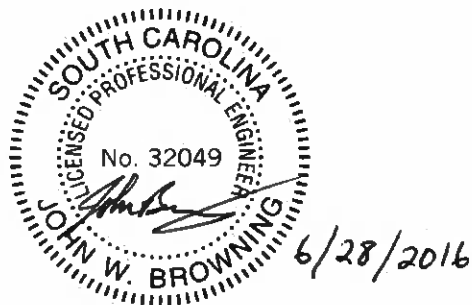
Columbia, SC 29201

Re: **Certification of Class 2 Solid Waste Landfill Closure**

**Santee Cooper Cross Generating Station**

**Permit # 083337-1601**

I certify that the Class 2 Solid Waste Landfill at Cross Generating Station has been closed in accordance with requirements outlined in Part IV, Section F of Regulation 61-107.19, and in accordance with the specifications approved in Closure Plan dated April 17, 2013, Revised on November 25, 2014 and Approved on February 10, 2015 (Permit # 083337-1601).



John W. Browning, P.E.

Santee Cooper

Engineer III

Station Construction