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**SANTEE COOPER
CROSS GENERATING STATION**

Existing Class Three CCR Landfill Area 1B Post-Closure Plan

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WorleyParsons

2675 Morgantown Rd.

Reading, PA 19607

USA

Telephone: +1 610 855 2000

Facsimile: +1 610 855 2001

www.worleyparsons.com

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**CROSS GENERATING STATION
EXISTING CLASS THREE CCR LANDFILL AREA 1B POST-CLOSURE PLAN**

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1. INTRODUCTION

The United States Environmental Protection Agency (EPA) promulgated new regulations regarding Coal Combustion Residuals (CCRs). These regulations (40 CFR Part 257) were published in the Federal Register on April 17, 2015. One of the requirements (§257.104) of the new regulations is to prepare a written post-closure plan that describes the minimum monitoring and maintenance activities and frequency at which these activities will be performed, contact information, and a description of the planned uses of the property during the post-closure period. This written closure plan must be placed in the facility's operating record no later than October 17, 2016, as required by §257.104(d)(2)(i).

This report presents the written post-closure plan for the existing Class Three CCR Landfill Area 1B at Cross Generating Station in Pineville, South Carolina.



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2. DISCUSSION

Title 40 CFR §257.104(d)(1)(i) through (iii) specify the minimum required information that must be included in the written post-closure plan. Each requirement is stated below, followed by the specific closure plan information, in addition to any supplemental information that may be required. The written post-closure plan must include, at minimum, the following:

(§257.104(d)(1)(i)) *A description of the monitoring and maintenance activities required in paragraph (b) of this section for the CCR unit, and the frequency at which these activities will be performed. Paragraph (b) of this section (§257.104(b)) states that following closure of the CCR unit, the owner or operator must conduct post-closure care for the CCR unit, which must consist of at least the following:*

(1) Maintaining the integrity and effectiveness of the final cover system, including making repairs to the final cover as necessary to correct the effects of settlement, subsidence, erosion, or other events, and preventing run-on and run-off from eroding or otherwise damaging the final cover,

The final cover system will be inspected on a quarterly basis. Inspection items will include observations of erosion (rills, sediment deposits, etc.), areas lacking or showing stressed vegetation, animal burrows, areas of settlement or ponding, seepage staining and/or flow areas, cracking, and woody vegetation (especially species with tap roots). Following each inspection, a summary report of the condition of the cap and any items of concern will be recorded in the post-closure logbook for the facility. Any items of concern will be addressed immediately. Repairs will be performed under the supervision of the post-closure maintenance manager. Animal burrows and eroded or depressed areas will be filled with compacted soil and re-seeded. Vegetation will be mowed as required to suppress weed and brush growth and maintain vegetation height at approximately six (6) inches. In areas where inadequate vegetation is observed, fertilizer will be applied and the area re-seeded. Insecticides may be used to eliminate insect populations detrimental to the vegetation.

The erosion and sedimentation control system will also be inspected on a quarterly basis and after significant storm events. The components of the system, including benches, catch basin inlets, downdrains, ditches, pipes, ponds, and inlet/outlet structures will be checked for obstructions and damage. Ditches will be inspected for obstructions, erosion of the side slopes, lack of vegetation, shifting of rip-rap, buildup of sediment, or any item that may compromise the performance of the ditch. Stormwater piping will be checked for blockages and the inlets and outlets inspected for disruption, undercutting, and/or rutting. Observations of the sediment level in the detention pond forebay will also be performed to determine if the forebay or pond requires cleanout. The pond outfall



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structure will be inspected to make sure it is not obstructed or filled with sediment, and the pond berms will be inspected to make sure they are still stable. Following each inspection, a summary report will be entered into the post-closure logbook along with photographs of any items of concern. Maintenance and/or repairs will be performed in a timely fashion as determined necessary by the inspectors or as prescribed upon follow-up observations. Any repairs or maintenance activities will be recorded.

(2) If the CCR unit is subject to the design criteria under §257.70, maintaining the integrity and effectiveness of the leachate collection and removal system and operating the leachate collection and removal system in accordance with the requirements of §257.70; and

The existing Class Three CCR Landfill Area 1B is an existing landfill and therefore is not subject to the design criteria under §257.70. However, the existing landfill does have an operating leachate collection system and it will be monitored on a quarterly basis and maintained during the post-closure care period. Clean-outs will be inspected for accessibility and performance. The exposed portion of each clean-out will be checked for damage and that the cap functions properly. Flows to the sump ponds and leachate collection pond will be observed and monitored. Any disruptions will be recorded in a logbook. In the event of an interruption to leachate flow, the collection lines may be observed using video monitoring equipment, and the lines jet cleaned.

(3) Maintaining the groundwater monitoring system and monitoring the groundwater in accordance with the requirements of §257.90 through §257.98.

The monitoring and maintenance activities associated with the groundwater monitoring system will be described in detail in the groundwater monitoring program to be developed in accordance with §257.90 through §257.98. Groundwater will be monitored in accordance with the requirements of §257.90 through §257.98 throughout the duration of the post-closure care period.



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(§257.104(d)(1)(ii)) *The name, address, telephone number, and email address of the person or office to contact about the facility during the post-closure care period; and*

Facility contact information during the post-closure care period is as follows:

South Carolina Public Service Authority
Class Three Landfill Cross Generating Station
One Riverwood Drive
P.O. Box 2946101
Moncks Corner, SC 29461

Attn: Mr. Don Cribb
Manager Generating Station
843-761-8000
donald.cribb@santeecooper.com

(§257.104(d)(1)(iii)) *A description of the planned uses of the property during the post-closure period. Post-closure use of the property shall not disturb the integrity of the final cover, liner(s), or any other component of the containment system, or the function of the monitoring systems unless necessary to comply with the requirements in this subpart.*

There is no current planned use for the landfill property during the post-closure period. The property will continue to be maintained by Santee Cooper, and public access will be prohibited.

(§257.104(d)(4)) *The owner or operator of the CCR unit must obtain a written certification from a qualified professional engineer that the initial and any amendment of the written post-closure plan meets the requirements of this section.*

See Section 4.



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3. CONCLUSIONS

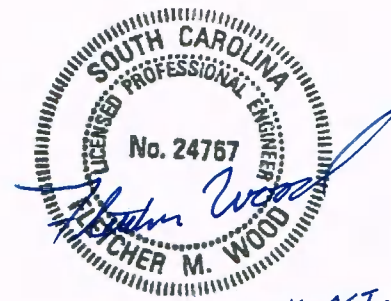
The permitted post-closure plan for the existing Class Three CCR Landfill Area 1B at Cross Generating Station satisfies the post-closure care requirements outlined in Title 40 CFR §257.104.



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4. CERTIFICATION

I, the undersigned Professional Engineer registered in good standing in the State of South Carolina, do hereby certify under penalty of law that I have personally examined and am familiar with the information submitted in this demonstration, and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. I certify, for the above-referenced CCR unit, that the post-closure plan meets the requirements of Title 40 CFR §257.104.



14-OCT-2016

Fletcher Wood

Printed Name of Professional Engineer

Fletcher Wood

Signature of Professional Engineer

24767

South Carolina License #