



POST-CLOSURE CARE PLAN

POST-CLOSURE CARE PLAN

Lakeland Electric – C.D. McIntosh Power Plant
Byproduct Storage Area

Submitted to: Lakeland Electric
C.D. McIntosh Power Plant
3030 East Lake Parker Drive
Lakeland, FL 33805 USA

Submitted by: Golder Associates Inc.
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15-45454.3

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PROFESSIONAL ENGINEER CERTIFICATION

I, Samuel F. Stafford, being a registered Professional Engineer in the state of Florida, do hereby certify to the best of my knowledge, information, and belief, that the information contained in this Post-Closure Care Plan dated October 12, 2016 was conducted in accordance with the requirements of 40 CFR §257.104, is true and correct, and had been prepared in accordance with recognized and generally accepted good engineering practices.

SFS
Samuel F. Stafford, PE, No. 78648
Florida Professional Engineer No. 78648
Certificate of Authorization No. 1676
STATE OF

12 02 2016
Date

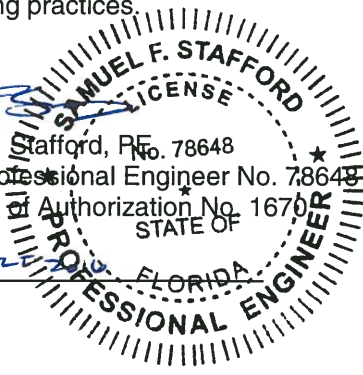




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1.0 INTRODUCTION

This Post-Closure Care Plan was prepared for the Byproduct Storage Area (BSA) at the C.D. McIntosh Power Plant (MPP) owned and operated by Lakeland Electric (LE) in Polk County, Florida. This plan was prepared in accordance with Title 40, Part 257, Subpart D of the Code of Federal Regulations to meet the requirements for a written post-closure care plan as required by §257.104(d) for post-closure care of coal combustion residual (CCR) landfills. The information contained in this plan will be used to assist LE in the active maintenance and monitoring required during the post-closure care period.

2.0 POST CLOSURE CARE PLAN

2.1 Facility Contact Information

The name, address, telephone number, and email address of the person or office to contact during post-closure period in accordance with §257.104(d)(ii) is included in Appendix A.

2.2 Monitoring and Maintenance Activities

Monitoring and maintenance activities will be performed to maintain the integrity of the final cover system as required by §257.104(b). During the post-closure care period of the site, the final cover system of BSA will be inspected at least annually. The following components will be monitored:

- Final cover system for signs of erosion, evidence of subsidence, signs of ponding water, and overall general condition;
- Surface water management system for signs of sedimentation, erosion, positive drainage, excessive vegetation, blockages, and overall general condition;
- Condition of vegetative growth for distressed vegetation, excessive vegetation, unwanted vegetation (woody growth); and
- Condition of groundwater monitoring wells.

Post-closure monitoring will be documented and include the date, components and item monitored, name of individual performing the monitoring, a description of deficiencies observed (if any), and maintenance/repairs performed including completion date (if any). Completed post-closure monitoring forms will be placed in the facility operating record.

2.3 Groundwater Monitoring

Groundwater monitoring activities will continue through the 30-year post-closure care period in accordance with §257.90 through §257.95. If at the end of the 30-year post-closure care period, the BSA is in assessment monitoring (or corrective action), post-closure care of the unit will continue until the site can return to detection monitoring under §257.95.

Maintenance of the groundwater monitoring system will be performed on an as-needed basis. The monitoring wells will be inspected during each sampling event for siltation within the well, damage to



protective casing, lock condition, concrete pad condition, dedicated pump operation, and dedicated tubing conditions. Necessary maintenance will be performed prior to or during the next scheduled sampling event depending on the repairs/maintenance required.

3.0 POST-CLOSURE PROPERTY USE

No post-closure use of the BSA is proposed at this time. LE will maintain control of and limit access to the facility. If the post-closure planned use is changed, the post-closure plan will be revised and any necessary demonstrations will be prepared in accordance with §257.104(d)(1)(iii).

4.0 POST-CLOSURE CARE COMPLETION

Within 60 days of following the completion of the post-closure care period, a notification verifying that post-closure care has been completed will be prepared in accordance with §257.104(e). This notification will be certified by a qualified professional engineer licensed in Florida and will be placed in the facility's operating record.

5.0 CLOSING

This Post-Closure Care Plan has been prepared for the BSA to describe the post-closure monitoring and maintenance activities, provide contact information, and describe the intended post-closure property use.

GOLDER ASSOCIATES INC.

Samuel F. Stafford, PE
Senior Project Engineer

Gregory M. Powell, PhD, PE
Practice Leader and Principal

SFS/GMP/ams

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APPENDIX A
FACILITY CONTACT INFORMATION

FACILITY CONTACT INFORMATION

Lakeland Electric
C.D. McIntosh Power Plant
3030 East Lake Parker Drive
Lakeland, FL 33805

Facility Contact: Ron Kremann, Production Manager
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Email: Ron.Kremann@lakelandgov.net