

LANDFILL POST-CLOSURE CARE PLAN

ORLANDO UTILITIES COMMISSION STANTON ENERGY CENTER

HORIZONTAL EXPANSION CELL 1

Orlando Utilities Commission
Stanton Energy Center
5100 South Alafaya Trail
Orlando, Florida

July 2, 2019
Charles Doud, PE
Orlando Utilities Commission

Orlando Utilities Commission

LANDFILL POST-CLOSURE CARE PLAN

Engineering Certification Statement

I, the undersigned, hereby certify that:

The following Technical Document, "Landfill Post-Closure Care Plan", has been prepared by me or under my direct supervision and found to be in conformity with sound engineering principles.

To the best of my knowledge, the information submitted herein is true, accurate, and complete based on reasonable techniques, estimates, materials, and information gathered and evaluated by qualified personnel.

Signature:



Name:

Charles W. Doud, PE

Company Name
and Address:

Orlando Utilities Commission
6113 Pershing Avenue
Orlando, FL 32822

Florida Registration No.:

58596

Telephone No.:

(407) 719-6055

Date:

July 2, 2019



TABLE OF CONTENTS

1. Introduction.....1

2. Plan Objective.....1

3. Monitoring and Maintenance Activities.....1

 A. Final Cover System Integrity Maintenance

 B. Leachate Collection Integrity

 C. Groundwater Monitoring

4. Planned Property Uses.....2

5. Site Contact Information.....2

1. INTRODUCTION

The Orlando Utilities Commission (OUC) owns and operates the Curtis H. Stanton Energy Center (SEC); including, the Coal Combustion Residuals waste disposal area which is designated at the facility as the Combustion Waste Storage Area (CWSA). Coal combustion residuals (CCR) generated from the coal-fired power generation units are subject to the requirements of 40 CFR Part 257 Subpart D, *Standards for Disposal of Coal Combustion Residuals in Landfills and Surface Impoundments* which was published in the *Federal Register* on April 17, 2015, with an effective date of October 19, 2015. Section § 257.104(d) of the rule requires a Post-Closure Care Plan for all applicable landfills.

Cell 1 of the SEC CWSA is a 30-acre, double-lined landfill with leachate collection and leak detection that abuts the original 90-acre landfill with an HDPE liner on the slope interface. The construction of Cell 1 was complete in December, 2012 and landfilling operations began on May 28, 2015; thus, Cell 1 is subject to the requirements of the CCR Rule (40 CFR Part 257, Subpart D) as an existing landfill. Cell 1 is expected to remain in operation until the maximum capacity is reached in 2021.

2. PLAN OBJECTIVE

The objective of this Landfill Post-Closure Care Plan is to document the practices and procedures OUC will implement after closure of Cell 1 in the SEC CWSA.

3. MONITORING AND MAINTENANCE ACTIVITIES

A. Final Cover System Integrity Maintenance

OUC will implement the following maintenance activities to maintain the integrity of the final landfill cover:

- 1) Quarterly inspections of Cell 1 to look for any evidence of erosion, settlement, subsidence, or any landfill cover damage.
- 2) Continue the implementation of the Run-on and Run-off Control System Plan for Cell 1.
- 3) Mowing to keep the vegetation height less than 2'.
- 4) Repair of any erosion areas.
- 5) Seeding or sodding of any bare areas to control erosion.

B. Leachate Collection Integrity

Construction of Cell 1 of the SEC CWSA was complete in December, 2012 and landfilling operations began on May 28, 2015; therefore, it is exempt from the Leachate Collection Integrity requirements of the CCR rule and no post-closure monitoring of the leachate collection system is required. Upon closure, Cell 1 of the SEC CWSA landfill will be covered with a 60 mil HDPE liner, 2' of soil cover, and vegetative cover. Leachate will continue to be produced for some time after closure of the landfill cell. OUC will monitor and maintain the leachate pumping system until leachate production has ceased. In addition, OUC will inspect the leachate piping with videotape methodology and clean the lines on an as-needed basis. The leachate will be

pumped to the CWSA ponds on the east side of the landfill and the leachate volume will be metered and recorded.

C. Groundwater Monitoring

Groundwater monitoring for the SEC is subject to requirements of the Conditions of Certification (PA 81 – 14M) issued by the Florida Department of Environmental Protection on August 30, 2017 under the Florida Power Plant Siting Act. Additionally, groundwater monitoring during the active life and after closure of Cell 1 is subjected to the requirements of the CCR Rule (40 CFR Part 257, Subpart D). The following documents that relate to groundwater monitoring for the CCR landfill have been posted for public viewing:

- “Groundwater Monitoring Well Data Statistical Methods Certification of Compliance for the CCR Rule,” dated October 13, 2017.
- “Groundwater Monitoring Well Certification of Compliance for the CCR,” dated October 16, 2017.
- “2017 Annual Groundwater Monitoring and Corrective Action Report,” dated January 20, 2018.
- “2018 Annual Groundwater Monitoring and Corrective Action Report,” dated January 30, 2019.

Upon closure of Cell 1, OUC will continue groundwater monitoring of the CWSA area as detailed in the SEC Conditions of Certification and will revise the groundwater monitoring plan in accordance with the applicable requirements of §257.90 - §257.98.

4. PLANNED PROPERTY USES

The SEC site is presently used for power generation and wildlife habitat. OUC has no plans to change the property usage at this time.

5. SITE CONTACT INFORMATION

The authorized representative of OUC for the post-closure care period is listed below:

Orlando Utilities Commission (OUC)
Environmental Affairs Director
Address: P.O. Box 3193,
Orlando, FL 32802
407-423-9100