



# POST-CLOSURE PLAN

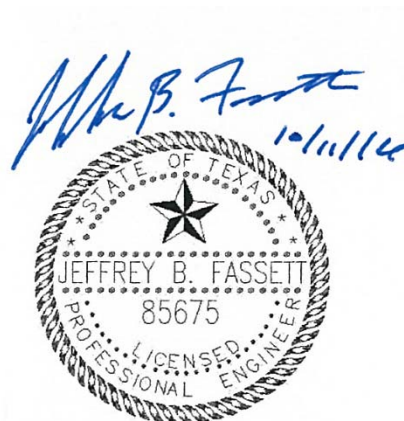
## POST-CLOSURE PLAN

### ASH LANDFILL 1

Oak Grove Steam Electric Station

**Submitted To:** Luminant  
1601 Bryan Street  
Dallas, TX 75201

**Submitted By:** Golder Associates Inc.  
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Professional Engineering Firm  
Registration Number F-2578

October 2016

Project No. 1648164





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## 1.0 INTRODUCTION

### 1.1 Purpose

The “Disposal of Coal Combustion Residuals (CCR) from Electric Utilities rule” (40 Code of Federal Regulations (40 CFR) Part 257), effective October 19, 2015, requires that existing CCR units closed in accordance with §257.102 must meet the requirements of §257.104 – Post-closure care requirements. In accordance with §257.104(d), this Post-Closure Plan provides the following information for the Oak Grove Steam Electric Station’s (OGSES’s) CCR landfill identified as Ash Landfill 1.

- A description of the required post-closure monitoring and maintenance activities and the frequency at which these activities will be performed;
- 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
- A description of the planned uses of the closed unit property during the post-closure period. Post-closure use of the property must not disturb the integrity of the final cover, liner, or any other component of the unit containment system, or the function of the monitoring systems.

Post-closure care must be conducted for 30 years after the CCR unit has been closed.

### 1.2 Site Background

The OGSES generates bottom ash, fly ash, boiler slag and flue gas desulfurization (FGD) sludge (gypsum) during electricity generation. Flyash and bottom ash generated at the facility (other than that amount that is sold/beneficially used in accordance with the CCR regulation), is handled in a dry manner and deposited in Ash Landfill 1.

The Post-Closure Plan addresses the existing CCR landfill at the OGSES. A separate Post-Closure Plan addresses the existing surface impoundments (FGD-A Pond, FGD-B Pond, and FGD-C Pond).



## 2.0 POST-CLOSURE MONITORING AND MAINTENANCE PLAN [§257.104(d)(1)(i)]

Monitoring and maintenance activities will be performed to maintain the integrity and effectiveness of the final cover system as specified in §257.104(b)(1). During the post-closure monitoring and maintenance period of the site, the final cover of the closed CCR unit will be inspected at the frequency indicated in Table 1 below.

**Table 1 – Post-Closure Care Maintenance**

<b>Post-Closure Care Maintenance Item</b>	<b>Frequency of Inspections</b>	<b>Types of Deficiency Conditions to be looked for during inspections</b>
Final Cover Condition	Annually	Inspection for vegetation, erosion, settlement, ponding water, and functionality and the surface water drainage system
Vegetation	Annually	Erosion rills and depressions, vegetative stress
Drainage structures	Annually	Sediment and debris build up, component damage, blockages, erosion, ponding of water in non-designated areas, excessive vegetative growth

Each monitoring and maintenance activity will be documented and include the date, components and items monitored, name of the individual performing the monitoring/maintenance, a description of the deficiencies observed (if any), maintenance/repairs performed (if any), and related information.

At a minimum, maintenance will be performed as needed prior to the next scheduled inspection.



### 3.0 GROUNDWATER MONITORING

As specified in 257.104(b)(3), groundwater monitoring activities will continue throughout the post-closure care period in accordance with §257.90 through §257.98. All groundwater monitoring wells that are part of the groundwater monitoring network will be monitored and maintained during the post-closure care period in accordance with the Groundwater Sampling and Analysis Plan, which will be finalized and placed in the Operating Record by October 17, 2017.

If at the end of the 30-year post-closure care period, groundwater assessment monitoring is being performed at the unit in accordance with §257.95, post-closure care of the unit must continue until the unit has returned to groundwater detection monitoring under §257.95.

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#### 4.0 FACILITY CONTACT INFORMATION [§257.104(d)(1)(ii)]

Table 2: Contact Information

<b>Name</b>	Luminant - Environmental Services
<b>Address</b>	1601 Bryan St., Dallas, Texas 75201
<b>Telephone Number</b>	214-875-8654
<b>Email</b>	CCRPostClosurePlan@Luminant.com

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## 5.0 POST-CLOSURE LAND USE [§257.104(d)(1)(iii)]

Post-closure use of the property will not disturb the integrity of the final cover, liner system, or any other component of the containment system, or function of the monitoring system in accordance with §257.104(d)(1)(iii) unless necessary to comply with the maintenance requirements of this subpart or as otherwise provided as allowed under this subpart.

Post-closure land use is anticipated to be undeveloped/unchanged and the area will be deed recorded and deed restricted to prevent disturbance of the closed waste management unit.

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## **6.0 NOTIFICATION OF COMPLETION OF POST-CLOSURE CARE PERIOD [§257.104(E)]**

No later than 60 days following completion of the post-closure care period, a certification will be prepared by a qualified professional engineer verifying that the post-closure care has been completed in accordance with this Post-Closure Plan.

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## 7.0 CONCLUSION

This Post-Closure Plan has been prepared by Golder Associates Inc., to describe post-closure monitoring and maintenance activities, to provide contact information, and to describe land use after the post-closure period.

### GOLDER ASSOCIATES INC.

A handwritten signature in blue ink, appearing to read 'Varenya Kumar', located below the company name.

Varenya Kumar  
Staff Engineer

JBF/VK

A handwritten signature in blue ink, appearing to read 'Jeffrey B. Fassett', located below the company name.

Jeffrey B. Fassett, PE  
Associate Geotechnical Engineer

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### 8.0 CERTIFICATION

I hereby certify that this Post-Closure Plan has been prepared in general accordance with normally accepted civil engineering practices and in accordance with the requirements of 40 CFR §257.104.



Jeffrey B. Fassett, PE  
Golder Associates Inc.  
Firm Registration Number F-2578

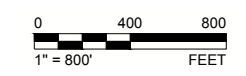
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REFERENCE(S)  
 AERIAL PHOTO SOURCED FROM GOOGLE EARTH PRO DATED 2016

*J. B. Fassett*  
 10/11/16

Professional Engineering Firm  
 Registration Number F-2578



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CLIENT  
 LUMINANT POWER  
 OAK GROVE

CONSULTANT	YYYY-MM-DD	2016-09-29
	DESIGNED	VK
	PREPARED	TNB
	REVIEWED	MX
	APPROVED	JBF



PROJECT  
 2016 COAL COMBUSTION RESIDUALS  
 ENGINEERING SERVICES

TITLE  
**GENERAL SITE MAP**

PROJECT NO. 1648164	REV. ----	FIGURE 1
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1 in. IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI B

Established in 1960, Golder Associates is a global, employee-owned organization that helps clients find sustainable solutions to the challenges of finite resources, energy and water supply and management, waste management, urbanization, and climate change. We provide a wide range of independent consulting, design, and construction services in our specialist areas of earth, environment, and energy. By building strong relationships and meeting the needs of clients, our people have created one of the most trusted professional services organizations in the world.

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