



REPORT

POST CLOSURE PLAN ADDENDUM NO. 1

*Martin Lake Steam Electric Station - Ash Ponds
Rusk County, Texas*

Submitted to:

Luminant Generation Company LLC

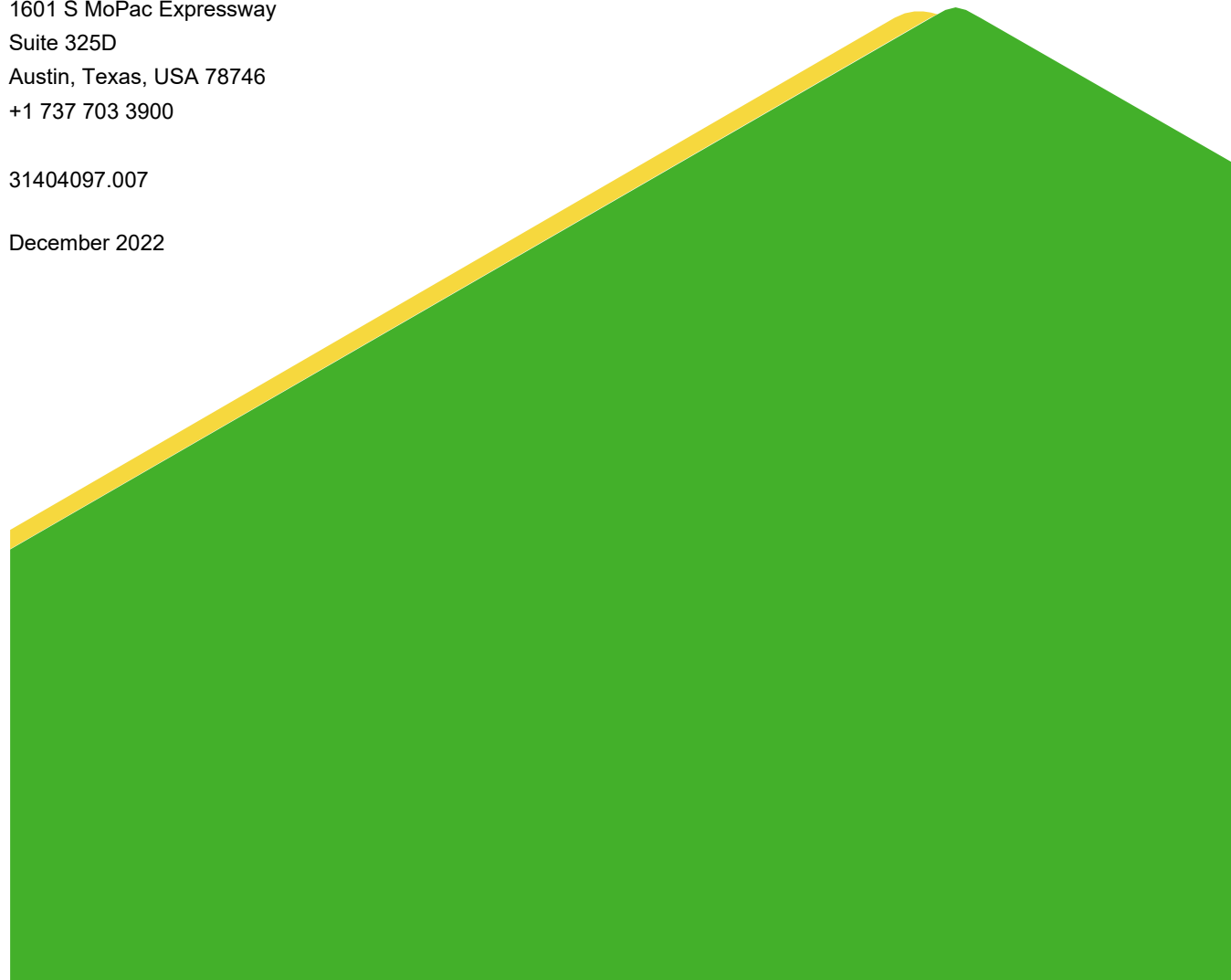
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December 2022



PROFESSIONAL CERTIFICATION

This document and all attachments were prepared by WSP Golder under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I hereby certify that Addendum No.1 to the Post Closure Plan for the Ash Ponds at the Martin Lake Steam Electric Station has been prepared in accordance with the requirements of 40 C.F.R. §257.104.



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DOCUMENT REVISION RECORD

Issue No.	Date	Details of Revisions
Revision 0	October 2016	Original Document
Addendum 1	December 2022	Updated configuration of liner systems for Ash Ponds, updated configuration of final cap/cover system for Ash Ponds and updated Facility contact information.

1.0 INTRODUCTION

On behalf of Luminant Generation Company LLC (Luminant), WSP Golder (Golder) has prepared this Addendum No. 1 to the Post Closure Plan for the East Ash Pond (EAP), West Ash Pond (WAP), and New Scrubber Pond (NSP) (collectively referred to as the “Ash Ponds”) located at the Martin Lake Steam Electric Station (MLSES) in Rusk County, Texas (hereafter, the “Site”). Coal Combustion Residuals (CCR) including flue gas desulfurization (FGD) wastewater and bottom ash generated as part of MLSES operation are managed in the Ash Ponds. The Ash Ponds are regulated as Existing CCR Impoundments under 40 C.F.R. § 257, Subpart D (the “CCR Rule”).

The original Post Closure Plan for the Ash Ponds was prepared in October 2016 in accordance with 40 C.F.R. §257.102(b) and placed in the MLSES operating record in accordance with 40 C.F.R. §257.105(h)(10) (PBW, 2016). This Addendum No. 1 updates the Post Closure Plan to reflect the following:

- Revisions to the configuration of the Ash Pond liner systems to reflect liner system retrofits in the impoundments;
- Revisions to the configuration of the Ash Pond final cap/cover systems due to the impoundment liner retrofits; and
- Update to the Facility contact information.

2.0 ASH POND LINER SYSTEM RETROFITS

The EAP, WAP and NSP are constructed partially above and partially below grade and are surrounded by engineered earthen dikes that extend above surrounding ground level. The EAP and WAP share an interior embankment and cover areas of approximately 10 acres and 15 acres, respectively. The NSP is an approximately 13 acre surface impoundment.

At the time the 2016 Post Closure Plan was prepared, the configuration of the liner systems in the EAP, WAP and NSP consisted of the following (from bottom to top):

- 18-inch thick compacted clay layer with a hydraulic conductivity of 1×10^{-7} cm/sec;
- a 60-mil HDPE geomembrane;
- a geosynthetic drainage layer;
- a second 60-mil HDPE geomembrane; and
- a 4-inch thick concrete revetment mat.

From 2020 through 2022, the EAP and WAP were each retrofitted with a new composite liner system meeting the alternative composite liner requirements of 40 CFR § 257.70(c) (HDR, 2021; HDR, 2022). The retrofitted liner system was installed on top of the existing liner system in each pond and consisted of the following (from bottom to top):

- a 6-inch thick layer of general soil fill material placed over the existing liner system;
- a polymer-enhanced geosynthetic clay liner (GCL) with a maximum hydraulic conductivity of 1×10^{-9} cm/sec and a minimum thickness of 6 mm; and
- a 60-mil HDPE geomembrane.

A similar composite liner system is currently being installed in the NSP.

3.0 ASH POND FINAL CAP/COVER SYSTEMS

Due to the retrofits of the Ash Pond liner systems described above, the final cap/cover systems for the EAP, WAP and NSP have been revised to consist of the following (from bottom to top):

- a geosynthetic clay liner (GCL) with a maximum hydraulic conductivity of 1×10^{-9} cm/sec and a minimum thickness of 6 mm;
- a 40-mil linear low-density polyethylene (LLDPE) textured geomembrane;
- a geosynthetic drainage layer; and
- a 18-inch erosion layer consisting of 12 inches of general fill overlain with 6 inches of soil capable of supporting native vegetation.

4.0 FACILITY CONTACT INFORMATION

The Facility Contact Information in Table 2 of Section 4 of the Post Closure Care Plan is updated as follows:

Table 2: Contact Information

Name	Luminant-Environmental Services
Address	6555 Sierra Drive, Irving, TX 75039
Telephone Number	214-875-8654
E-mail	CCRinfo@luminant.com

5.0 REFERENCES

HDR (2021). Construction Completion and Construction Quality Assurance Report, CCR Impoundment Reline East Ash Pond, Martin Lake Steam Electric Station, May.

HDR (2022). Construction Completion and Construction Quality Assurance Report, CCR Impoundment Reline West Ash Pond, Martin Lake Steam Electric Station, June.

Pastor, Behling & Wheeler, LLC (PBW), 2016. CCR Post Closure Plan – Bottom Ash Ponds and New Scrubber Pond, Martin Lake Steam Electric Station. October.