

Prepared for



Dominion
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**COAL COMBUSTION RESIDUALS
LINER DOCUMENTATION**

for

**VIRGINIA ELECTRIC AND POWER COMPANY
CHESTERFIELD POWER STATION
LOWER ASH POND
CHESTERFIELD COUNTY, VIRGINIA**

Prepared by

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1. CERTIFICATION/STATEMENT OF PROFESSIONAL OPINION

The Coal Combustion Residuals Liner Documentation Report (Report) for the Chesterfield Power Station Lower Ash Pond was prepared by Geosyntec Consultants, Inc. (Geosyntec). The Report was based on certain information that, other than for information Geosyntec originally prepared, Geosyntec has relied on, but not independently verified. This Certification/Statement of Professional Opinion is therefore limited to the information available to Geosyntec at the time the Report was written. On the basis of and subject to the foregoing, it is my professional opinion as a Professional Engineer licensed in the Commonwealth of Virginia that the Report has been prepared in accordance with good and accepted engineering practices as exercised by other engineers practicing in the same discipline(s), under similar circumstances, at the same time, and in the same locale. It is my professional opinion that the Report was prepared consistent with the requirements of the United States Environmental Protection Agency's "Disposal of Coal Combustion Residuals From Electric Utilities," published in the Federal Register on April 17, 2015 with an effective date of October 19, 2015 (40 CFR 257 Subpart D).

The use of the words "certification" and/or "certify" in this document shall be interpreted and construed as a Statement of Professional Opinion and is not and shall not be interpreted or construed as a guarantee, warranty, or legal opinion.

Geosyntec Consultants, Inc.



Scott Sheridan, P.E.
Principal

Date 10/14/2016

2. INTRODUCTION

The Chesterfield Power Station (Station) is owned by Virginia Electric and Power Company d/b/a Dominion Virginia Power (Dominion) and is located in Chesterfield County, Virginia. The Station includes the Lower Ash Pond (LAP) impoundment.

The LAP is located on Dominion property at the Chesterfield Power Station in Chesterfield County, Virginia (coordinates 37.3737° North and 77.3795° West) and is bounded by the Old Channel of the James River and the Upper Pond on the south, Henricus Park Road on the east, Coxendale Road on the north, and the thermal channel to the west.

The LAP is regulated as an existing CCR surface impoundment under the Environmental Protection Agency's "Standards for the Disposal of Coal Combustion Residuals in Landfills and Surface Impoundments" [40 CFR 257 Subpart D] published in the Federal Register on April 17, 2015 with an effective date of October 19, 2015 (CCR Rule).

3. PURPOSE

This Liner Documentation Report is prepared pursuant to the requirements in the CCR Rule. Specifically, § 257.71(a)(1) of the CCR Rule requires an owner or operator of an existing CCR unit to document whether or not the existing CCR unit was constructed with a liner meeting the requirements set forth in the section.

4. LINER DOCUMENTATION

The references listed in Section 6.0 of this Report were reviewed to determine whether or not the LAP was constructed with a liner meeting the requirements of § 257.71(a)(1). Information from Geosyntec's documentation review used to reach this determination includes the following:

1. The Dam Safety Assessment of CCW Impoundments, Chesterfield Power Station; September 29, 2010 (prepared by O'Brien & Gere for the EPA) noted that "No engineered liner was provided on the interior of the [Lower Ash] pond."
2. The construction drawings for the LAP 1969 berm extension (Stone & Webster, 1966) do not show a constructed liner beneath the LAP.

5. CONCLUSION

Based on the information in this Report, it is Geosyntec's determination that the LAP was not constructed with a liner meeting the requirements of CCR Rule § 257.71(a)(1).

6. REFERENCES

O'Brien & Gere (for the EPA), Dam Safety Assessment of CCW Impoundments, Chesterfield Power Station; September 29, 2010.

Stone & Webster Engineering Corporation. New Ash Pond Sh. 1 & 2, 1964 Ext. Chesterfield Power Sta. Prepared in 1962, 1969 Extension Revision, 1966.