



# LINER DOCUMENTATION

A world of  
capabilities  
delivered locally

## LINER DOCUMENTATION

Chesapeake Energy Center CCR Surface  
Impoundment: Bottom Ash Pond



**Dominion  
Energy**<sup>SM</sup>

**Submitted To:** Chesapeake Energy Center  
2701 Veeco Street  
Chesapeake, VA 23323

**Submitted By:** Golder Associates Inc.  
2108 W. Laburnum Avenue, Suite 200  
Richmond, VA 23227

April 2018

Project No. 13-00193





## Table of Contents

1.0	Certification .....	1
2.0	Introduction .....	2
3.0	Purpose .....	2
4.0	Conclusions.....	2

## 1.0 CERTIFICATION

This Liner Documentation for the Chesapeake Energy Center's Bottom Ash Pond was prepared by Golder Associates Inc. (Golder). The document and Certification/Statement of Professional Opinion are based on and limited to information that Golder has relied on from Dominion Energy and others, but not independently verified, as well as work products produced by Golder.

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 this document 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 document is accurate and prepared consistent with the requirements in §257.71 of the United States Environmental Protection Agency's (EPA's) "Standards for the Disposal of Coal Combustion Residuals in Landfills and Surface Impoundments" published in the Federal Register on April 17, 2015 with an effective date of October 19, 2015 (40 CFR §257.71), as well as with the requirements in §257.100 resulting from the EPA's "Hazardous and Solid Waste Management System: Disposal of Coal Combustion Residuals From Electric Utilities; Extension of Compliance Deadlines for Certain Inactive Surface Impoundments; Response to Partial Vacatur" published in the Federal Register on August 5, 2016 with an effective date of October 4, 2016 (40 CFR §257.100).

The use of the word "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.

Daniel McGrath  
Print Name

Associate and Senior Consultant  
Title

*Daniel McGrath*  
Signature

4/12/18  
Date



## 2.0 INTRODUCTION

This Liner Documentation was prepared for the Chesapeake Energy Center's (CEC) inactive Coal Combustion Residuals (CCR) surface impoundment known as the Bottom Ash Pond (BAP) and prepared in accordance with 40 CFR Part §257, Subpart D and is consistent with the requirements of 40 CFR §257.71 and 40 CFR §257.100(e)(3)(i).

CEC, owned and operated by Virginia Electric and Power Company d/b/a Dominion Energy Virginia (Dominion), is located in the City of Chesapeake, Virginia. The station includes an inactive CCR surface impoundment, the BAP, as defined by the Disposal of Coal Combustion Residuals from Electric Utilities; Final Rule and Direct Final Rule (40 CFR §257; the CCR rule).

## 3.0 PURPOSE

Pursuant to 40 CFR §257.71(b) and §257.100(e)(3)(i), a professional engineer certification is required for *Liner Design Criteria for Existing Coal Combustion Residuals (CCR) Surface Impoundments*, regarding the liner design of the BAP at CEC.

## 4.0 CONCLUSIONS

It is Golder's opinion, based upon a review of available information, that the BAP is considered to be an inactive unlined CCR surface impoundment as that term is defined in 40 CFR §257.71(a)(3)(i). Specifically, the BAP is not constructed with a liner that meets the requirements of 40 CFR §257.71(a)(1)(i), (ii), or (iii).

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.

Africa	+ 27 11 254 4800
Asia	+ 852 2562 3658
Australasia	+ 61 3 8862 3500
Europe	+ 356 21 42 30 20
North America	+ 1 800 275 3281
South America	+ 56 2 2616 2000

[solutions@golder.com](mailto:solutions@golder.com)  
[www.golder.com](http://www.golder.com)

**Golder Associates Inc.**  
**2108 W. Laburnum Avenue, Suite 200**  
**Richmond, VA 23227 USA**  
**Tel: (804) 358-7900**  
**Fax: (804) 358-2900**



**Engineering Earth's Development, Preserving Earth's Integrity**

Golder, Golder Associates and the GA globe design are trademarks of Golder Associates Corporation