

Transportation Plan for Bottom Ash Pond Closure

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Chesapeake Energy Center

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Chesapeake, Virginia 23323

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Acronym and Abbreviation List

BAP	Bottom Ash Pond
CCR	Coal Combustion Residuals
CFR	Code of Federal Regulations
CUP	Conditional Use Permit
DEQ	Virginia Department of Environmental Quality
Landfill	Industrial Landfill
SWP	Solid Waste Permit
VAC	Virginia Administrative Code
VSWMR	Virginia Solid Waste Management Regulations

1.0 Introduction

This Transportation Plan was prepared for closure of the Bottom Ash Pond (BAP) at the Chesapeake Energy Center (Station). Virginia Electric and Power Company d.b.a. Dominion Energy Virginia (Dominion) owns and operates the Station, located at 2701 Vepco Street, Chesapeake, Virginia 23323. The Station opened in 1953 and operated four (4) coal-fired electric generation units that were retired in 2014, at which time the Station ceased producing Coal Combustion Residuals (CCR).

Senate Bill 1355, codified at Va. Code § 10.1-1402.03, requires closure by removal of CCR contained in the BAP, the Landfill, and the Historic Pond located at the Station. The closure will be completed in accordance with the Virginia Solid Waste Management Regulations (VSWMR), 9 VAC 20-81, and the Federal Subpart D Standards for the Disposal of Coal Combustion Residuals in Landfills and Surface Impoundments (CCR Rule), 40 CFR Part 257. Based on the closure schedule requirements in the CCR rule, the BAP must be closed by September 30, 2027. BAP closure is planned for spring/summer 2027 and includes excavation and off-site transportation of approximately 42,000 cubic yards (cy) of CCR.

In accordance with Va. Code § 10.1-1402.03(D), “where closure pursuant to this section requires that CCR or CCR that has been beneficially reused be removed off-site, the owner or operator shall develop a transportation plan in consultation with any county, city, or town in which the CCR units are located and any county, city, or town within two miles of the CCR units that minimizes the impact of any transport of CCR on adjacent property owners and surrounding communities.”

In addition, the Conditional Use Permit (CUP) approved by the City of Chesapeake on December 20, 2022, (PLN-USES-2022-001) requires review and approval of the Transportation Plan developed for Va. Code § 10.1-1402.03(D) by the Planning Department, or its designee, and includes additional stipulations. In accordance with Section 2 of the CUP, Dominion will submit an annual report to the Zoning Administrator by July 1st of each year, detailing the closure activities and volume of CCR removed.

This Transportation Plan only applies to closure of the BAP and addresses each component required by Va. Code § 10.1-1402.03(D) and the specific stipulations as required by the CUP, where applicable. The Landfill and Historic Pond will be closed as a separate project, and Dominion will develop an updated Transportation Plan based on larger CCR volume and alternative transportation methods to include rail and/or barge options.

2.0 Alternative Transportation Options

Trucking is the only feasible means for off-site transportation of the approximately 42,000 cy of CCR to close the BAP in 2027. Rail and barge options would require significant infrastructure improvements, which will be part of the future closure project for the Landfill and Historic Pond.

Section 3.a of the CUP requires rail or barge transportation to be the primary (at least 51%) means of transporting CCR off-site. This requirement will be met for the total of approximately 2.2 mcy of CCR to be transported off-site, including the CCR removed from the BAP.

3.0 Truck Routing and Impact Minimization Measures

Truck routing for the BAP closure will include accessing the site from Route 460 (Military Highway) onto Shell Rd, then onto Vepco Street and into the Dominion Property. The on-site truck route will follow a combination of paved and gravel access roads around the perimeter of the CCR areas. Trucks will be loaded adjacent to the BAP and then directed to continue in a one-way traffic pattern around the perimeter road, see Figure 1. Loaded trucks will follow Vepco Street, to Shell Road, and onto Military Highway via the existing signalized intersection, see Figure 2.

As required by section 3.b of the CUP, off-site hauling shall only occur on the routes depicted on Figure 2 – Proposed Haul Routes of Chesapeake Energy Center, dated October 21, 2022. Trucks for this project will not travel through any residential neighborhoods within the City.

4.0 Noise Control Measures

The Project will follow all relevant federal, state, and local regulations on noise levels. The highest noise levels are expected to occur on-site during CCR excavation and loading activities at the BAP. The closest residential areas to the BAP are approximately 1/3 of a mile to the south across Deep Creek and on the opposite side of Interstate 64. Localized off-site noise associated with truck traffic hauling CCR and equipment is anticipated but not expected to impact residential areas. As a result, noise control measures are not anticipated to be required for the proposed construction activities.

5.0 Traffic Impact Analysis

AECOM performed a Traffic Impact Analysis (TIA) in June 2022 on behalf of Dominion to support the Conditional Use Permit approved by the City of Chesapeake. The TIA was previously provided

to the City of Chesapeake and included traffic counts conducted in May 2022 and truck traffic modelling for 2027 peak flows at the intersection of US Route 460 and Shell Road. The analysis concluded that the intersection has the capacity for up to 56 additional truck trips during the peak hours of 4:15 to 5:15 PM.

Section 3.b of the CUP requires a more conservative limit, specifically:

“Truck hauling frequency shall be limited to no more than 56 trucks per hour for all hours outside of 4:30 to 6:30 p.m. Truck hauling frequency shall be limited to no more than 37 trucks per hour between the hours of 4:30 to 6:30 p.m.”

The BAP closure project will follow the more conservative truck hauling frequency limits in the CUP. In addition, Dominion will maintain a daily record to track compliance with this stipulation and make it available to the City of Chesapeake upon request as required by the CUP.

Based on a preliminary evaluation of the BAP closure project, approximately 2,800 total truck loads are anticipated over a period of 2-3 months. The estimated daily truck count is likely to be in the range of 50-75 trucks per day. Actual truck counts will depend on the contractor's means and methods and the number of trucks in rotation. However, for the BAP closure project, hourly truck load traffic is expected to be well below the limits stipulated in the CUP.

6.0 Fugitive Dust Mitigation

An updated Fugitive Dust Control Plan (FDCP) was prepared in February 2026 for the entire Station CCR closure project as required by the CCR rule and modification of Virginia DEQ Solid Waste Permit 440 (SWP 440). This FDCP became effective on July 31, 2026 when SWP 440 was approved by DEQ. The FDCP was posted on Dominion's public CCR Compliance website: <https://www.dominionenergy.com/projects-and-facilities/electric-projects/coal-ash/chesterfield-power-station-coal-ash-project>. This FDCP will be followed during closure of the BAP in 2027 and future closure of the Landfill and Historic Pond.

Section 4 of the CUP requires submittal to the City of the FDCP as accepted by DEQ. A copy of the FDCP pending DEQ approval of SWP 440 is included as Attachment 1.

In addition, the BAP closure project will follow section 3.b of the CUP requiring the use of a “sealed and covered truck” for CCR hauling, in accordance with any DEQ-approved means and methods to accomplish the sealing or covering. Trucks with sealed tailgates and bed covers will be used for transporting CCR off-site and will be inspected prior to leaving the site.

7.0 Repair and Restoration

In accordance with section 3.d.i. of the CUP, Dominion will repair and maintain in its pre-use condition the City's right of way on the portion of Shell Road between Vepco Street and Military Highway used for the transportation of CCR. Repair and resurfacing of damaged sections shall be completed in accordance with the City's Public Facilities Manual and subject to the review and approval of the Director of Development and Permits, or designee.

8.0 Public Outreach

In accordance with Va. Code § 10.1-1402.03(D), Dominion will:

- Post this Transportation Plan on Dominion's publicly accessible website.
- Provide notice of the availability of the Plan to DEQ and the City of Chesapeake.
- Post a notice in a newspaper of general circulation in the locality (The Virginian Pilot).

Figures

Figure 1
On-site Trucking Haul Route
Bottom Ash Pond Closure



CHESAPEAKE ENERGY CENTER

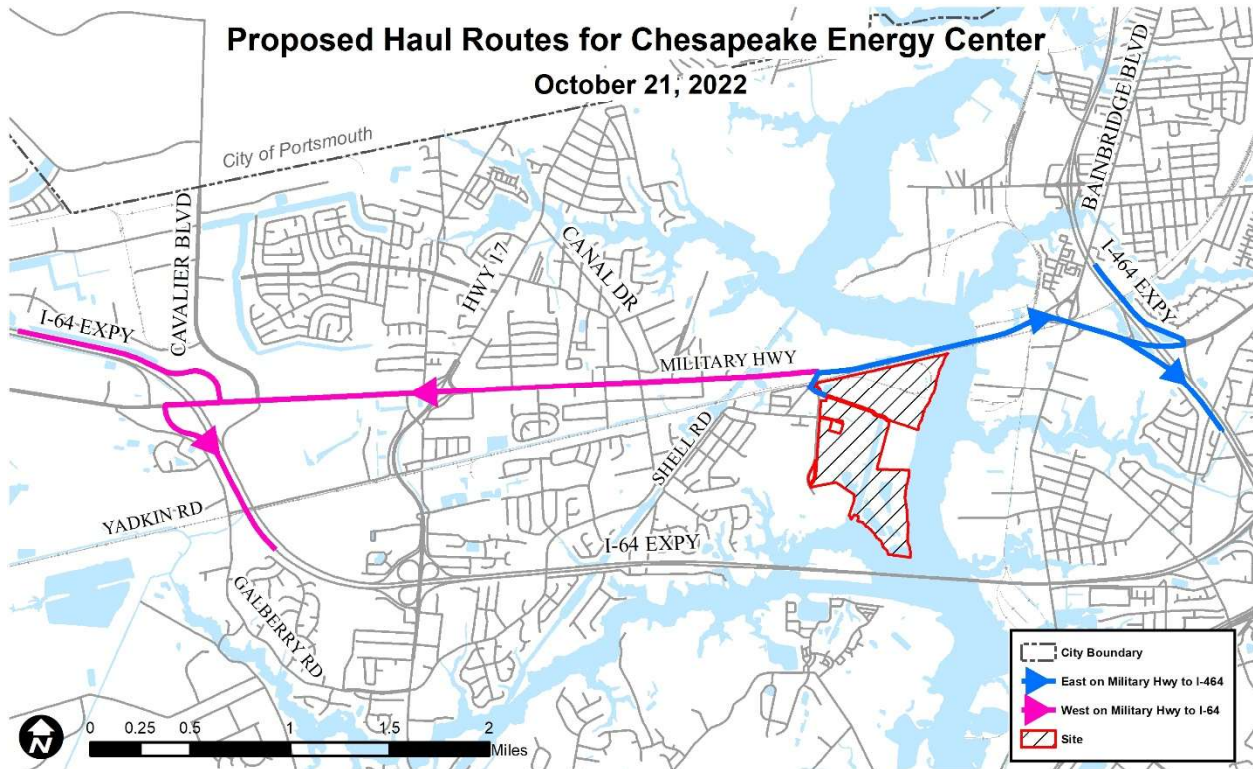
DATE OF PHOTOGRAPH: NOVEMBER 5, 2016

Figure 2

Proposed Off-site Trucking Haul route

Bottom Ash Pond Closure

Chesapeake Energy Center - 2701 Vepco St, Chesapeake , VA to



Attachment 1: Fugitive Dust Control Plan

<https://www.dominionenergy.com/projects-and-facilities/electric-projects/coal-ash/chesterfield-power-station-coal-ash-project>.