

1.0 Project Overview

1.1 Introduction

Virginia Electric and Power Company d/b/a Dominion Virginia Power (Dominion) is in the process of implementing a long-term strategy for closure of its existing coal combustion residuals (CCR) (ash) ponds at Possum Point Power Station (Station), an 1,845 megawatt natural gas and oil fired (previously coal-fired) steam electric generating station near Dumfries, Prince William County, Virginia (VA).

1.2 Project Description

Dominion is currently working to close five existing ash ponds at the Station. The five ponds are designated A, B, C, D and E and their locations are shown on Drawing C150132.00 - Aerial Outfall Exhibit, Station Outfalls and Treatment Facilities. Ponds A, B, and C were originally three contiguous ponds that have been inactive since the 1960s. All five ponds are scheduled for closure by April 2018 in accordance with the relevant provisions of the United States Environmental Protection Agency's CCR rule, which was published on April 17, 2015, and codified in 40 Code of Federal Regulations (CFR) Part 257, Subpart D.

Ash Pond E has been decanted, dewatered, and is presently being dredged, all in accordance with applicable state and local requirements. The dredged ash materials and contact/pore waters are being relocated to Ash Pond D for storage. Ash Pond E can then be clean-closed and regraded. Ash Ponds A, B, and C are in the process of being dewatered, dredged, and clean-closed. The dredged ash materials and contact/pore waters are in the process of being relocated to Ash Pond D for storage. Following transfer of the dredged ash materials and associated waters from A, B, C and E, Ash Pond D will be decanted, regraded, capped, and closed. A single regulated solid waste facility for the Station's ash will be maintained at closed Ash Pond D subject to all applicable state closure and post-closure care requirements; the construction drawings, specifications, and solid waste permitting application package for this facility will be provided to VA Department of Environmental Quality (DEQ) under separate cover.

1.2.1 Purpose and Need

The process leading to closure of Ponds A, B, C, D, and E will involve management of the following water/wastewater types:

- ▶ **Pond E Decant Water**, which refers to the surface water stored in Pond E that was discharged into Quantico Creek in May 2015 in compliance with the Station's existing VA Pollutant Discharge Elimination System (VPDES) permit by sequentially removing stop logs at the outfall structure (to Outfall 005). The Decant Water was discharged to begin dredging of ash in Pond E.
- ▶ **Ash Dewatering Water** from Ponds A, B, C, D and E. Dewatering Water refers to the water that is produced from the dewatering of the ash in order to stabilize the ash and allow for its removal by mechanical dredging (Ponds A, B, C, and E) or its grading for the construction of a cap system (Pond D). Dewatering Water is currently being accumulated onsite by the excavation of trenches to drain the ash and by the installation of wells that are being used to pump water out of the ash. Dewatering Water is presently being stored in Ash Pond D as allowed under the existing VPDES permit and is not being discharged.