VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY

Chesterfield Power Station Fossil Fuel Combustion Byproducts Management Facility

Solid Waste Permit No. 609
Draft Permit Information

- Public Participation:
  - Draft permit released for public comment on January 22, 2016
  - First public hearing to receive comments on technical merits of draft permit – February 24, 2016
  - Reconvened public hearing due to severe weather during February 2016 hearing – March 16, 2016
  - Public comment period extends from January 22 through March 31, 2016
- Part A Permit Application to address site suitability for the landfill received July 8, 2010 and approved December 18, 2012
  - Application includes local government certification
- Part B Permit Application for design and construction of the landfill received August 31, 2012.
  - After extensive DEQ review and comment, application deemed technically complete on January 22, 2016
- Proposed lined captive industrial landfill for disposal of coal ash and other non-hazardous wastes generated at the Chesterfield Power Station, owned and operated by Dominion Virginia Power
- Landfill to be constructed on property owned by Dominion at existing Chesterfield Power Station. Dominion is building a road and bridge over Proctor's Creek so the haul route does not impact traffic in the surrounding area. Approved via Virginia Water Protection permit No. 10-1787
- Landfill is subject to U.S. EPA 2015 Final Rule on the Disposal of Coal Combustion Residuals
  - U.S. EPA Fact Sheet on the Final Rule can be accessed at www.epa.gov/coalash/fact-sheet-final-rule-coal-combustion-residuals-generated-electric-utilities
  - These requirements are in addition to Virginia Solid Waste Management Regulations which has incorporated these requirements
  - Under this Rule, Dominion is required to post certain documents on a publicly available website which can be accessed at www.dom.com/ccr
- Total disposal acreage: 66.4 acres (4 phases)
- Total disposal capacity: 9,361,333 cubic yards with estimated life of 20 years
- Anticipated construction to begin in 2016 with first waste placement in 2017
- Phases 1 through 4 of the landfill shall be underlain by a liner system comparable to those used at modern sanitary landfills, consisting of the following from top to bottom:
  - 6" thick protective cover;
  - 12" thick leachate drainage layer composed of sand or other granular material with a hydraulic conductivity of $1x10^{-3}$cm/s or greater;
  - 250-mil (0.250") geocomposite, double sided with 8 oz/yd² nonwoven geotextile;
  - 60-mil High Density Polyethylene (HDPE) geomembrane liner, placed at a minimum 2.0% slope; and
  - Either a two-foot thick layer of compacted clay soil or augmented soil with a hydraulic conductivity of no more than $1x10^{-7}$ cm/sec or a geosynthetic liner (GCL) with a hydraulic conductivity of no more than 1×10^{-9} cm/sec over a controlled subgrade
- Liner system shall include a leachate collection system
- Groundwater monitoring program to include:
  - 10 groundwater monitoring wells installed around the landfill
  - Semi-Annual sampling, to include heavy metals, and reporting
- Post-closure care to include cap maintenance and groundwater monitoring to occur for a minimum of 30 years after landfill closure
- More information on coal ash can be accessed at www.epa.gov/coalash