
Bremo Bluff FFCP Management Facility, SWP 627: Part A Application Approval

From Lyang, JengHwa (DEQ) <JengHwa.Lyang@deq.virginia.gov>

Date Thu 12/19/2024 11:07 AM

To dennis.a.slade@dominionenergy.com <dennis.a.slade@dominionenergy.com>

Cc Stuart, Laura (DEQ) <Laura.Stuart@deq.virginia.gov>; Erin L Heath <Erin.L.Heath@dominionenergy.com>; Poland, Jenny (DEQ) <Jenny.Poland@deq.virginia.gov>; Christe, Geoff (DEQ) <Geoff.Christe@deq.virginia.gov>; Chudasama, Prina (DEQ) <Prina.Chudasama@deq.virginia.gov>; Shaw, David (DEQ) <David.Shaw@deq.virginia.gov>

 1 attachment (103 KB)

SWP627 PTA_Approval Ltr 20241219.pdf;

Dennis,

Attached please find a DEQ's Part A approval letter. If we may be of further assistance, please feel free to contact us.

Best regards,



JengHwa Lyang, Ph.D., P.E.
Solid Waste Permit Writer
Land Protection Program, Valley Regional Office
[Virginia Department of Environmental Quality](https://www.deq.virginia.gov/)
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Commonwealth of Virginia

VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY

www.deq.virginia.gov

Travis A. Voyles
Secretary of Natural and Historic Resources

Michael S. Rolband, PE, PWD, PWS Emeritus
Director

December 19, 2024

VIA ELECTRONIC MAIL

Mr. Dennis Slade
Corporate Manager, Waste and Remediation
Dominion Energy Environmental Services
120 Tredegar Street
Richmond, VA 23219
dennis.a.slade@dominionenergy.com

Subject: Bremo Bluff FFCP Management Facility, Solid Waste Permit No. (SWP) 627
Part A Application Approval
Bremo Bluff, Virginia

Dear Mr. Slade:

The Virginia Department of Environmental Quality (DEQ) Valley Regional Office is in receipt of the following documentation:

“Part A Permit Application: Bremo Bluff Fossil Fuel Combustion Products (FFCP) Management Facility,” prepared by AECOM. The application was received by DEQ on July 6, 2021, with revisions received on October 1, 2021, April 7, 2022, July 8, 2022, August 24, 2022, March 6, 2024, and June 28, 2024.

VWP Individual Permit No. 21-2305 issued by DEQ and dated March 30, 2023.

Section 404 Permit NAO-2020-01000 (VRMC #21-V2305) issued by U.S. Army Corps of Engineers and dated January 12, 2024.

“Dominion Energy Bremo Bluff Fossil Fuel Combustion Products Management Facility, Solid Waste Permit #627; Variance Request to Part A Solid Waste Permit Siting Requirements,” prepared by Dominion Energy Services, Inc., and dated June 28, 2024, which was approved by DEQ on November 12, 2024.

The application addressed the suitability of a new captive industrial CCR landfill with a waste management area of 73 acres located inside a 125-acre facility boundary.

In accordance with § 9 VAC 20-81-450.A, B, and C, § 9 VAC 20-81-460, § 9 VAC 20-81-120, § 9 VAC 20-81-810.A.1 of the Virginia Solid Waste Management Regulations (VSWMR, 9 VAC 20-81-10, *et seq.*), the Part A Application has been reviewed for technical adequacy and regulatory compliance.

DEQ deems the application to be complete and technically adequate. Pursuant to § 9 VAC 20-81-450.C.3 of the VSWMR, the approval of the Part A Application is subject to the following conditions, which must be met in order to maintain the validity of this approval.

1. The facility boundary (125 acres) and the waste management boundary (73 acres) are limited to those areas identified as the “Facility Boundary” and “Waste Management Boundary” respectively, on the Facility Near Vicinity Map: Index Map and Maps A1-A3 & B1-B3, last revised May 30, 2024, as well as on Figure 1 Landfill Boundaries, dated February 18, 2024.
2. This Part A approval letter, the Near Vicinity Map(s), last revised May 30, 2024, and Figure 1 Landfill Boundaries dated February 18, 2024, shall be included with the Part B permit application as Attachment 1 to the Design Report. The Part B permit application must discuss how the conditions described in this Part A approval letter have been met.
3. Prior to construction, any piezometers or monitoring wells located within the proposed waste management area shall be completely removed by removing the casing or overdrilling of the wellbore, followed by pressure grouting methods to the ground surface.
4. All vehicle traffic to the landfill should be on roads internal to the facility. Should traffic access change to utilize public roads, a copy of the adequacy report required under 9VAC 20-81-460.G that is submitted to the Virginia Department of Transportation (VDOT) and a VDOT approval letter shall be included in the Part B application.
5. The highest elevation of any point on the landfill is limited to 525 feet or less above mean sea level (AMSL). The Part B permit application cannot be submitted for a highest elevation of the top of the landfill beyond the elevation 525 feet AMSL.
6. The daily disposal limit for the Bremo Bluff FFCP Management Facility is 15,000 tons per day. This limit is subject to decreasing during the Part B permit application process depending on the planning and permitting for the equipment and other operational needs of the facility.
7. During Part B design the disposal cells and the leachate storage system layout and location must be within the waste management boundary that is delineated in the Part A application. Also, the disposal capacity, considering the maximum build-out, must be equal to or less than 7,600,000 cubic yards. This is the capacity requested in the Part A application. The depth of the base grades for the disposal area are limited to a lowest elevation of 312 feet AMSL.

8. All containment structures, including liners, leachate collection systems, and surface water control systems shall be designed to resist the maximum horizontal ground acceleration, with a 10% or greater probability of occurring in 250 years, for this site. The value was estimated to be 0.197g in the seismic analysis submitted with the Part A application. The Part B design analysis must be performed using the maximum horizontal acceleration of 0.197g or more.
9. The Part B design should address any requirements of the Wetland and Stream Impact permits issued and any approved variances.

If you should have questions regarding this matter, please contact JengHwa Lyang, Solid Waste Permit Writer, at 540-830-8837 or at jenghwa.lyang@deq.virginia.gov.

Sincerely,



Laura Stuart, P.G.
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cc: *(via email)*

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