GOLDER

Date of Inspection:	6/20/2018
Facility:	Bremo North Pond

Annual Inspection Report for Existing CCR Surface Impoundment

Reference: 40 CFR Section 257.83, *Inspection Requirements for CCR Surface Impoundments*

Owner Information

Name of Dam:	Bremo Power Station North Ash Pond Dam
Owner's Name:	Dominion Energy Virginia d.b.a. Virginia Electric and Power Company
State ID #:	DCR Inventory #065020
Owner Contact:	Rick Woolard 804-385-7133
Dam Location:	Bremo Bluff, Virginia

Engineer Information

Name and Virginia License Number:	Daniel McGrath 040703
Firm Name:	Golder Associates Inc.
Firm Address:	2108 W. Laburnum Ave, Suite 200, Richmond, VA 23227
Telephone No.:	804-358-7900

Certification Statement

I certify that the inspection of the above listed CCR surface impoundment was conducted in conformance with the requirements listed in 40 CFR 257.83, and with generally accepted good engineering practices.

Engineer seal, signature and date

As used herein, the word certify shall mean an expression of the Engineer's professional opinion to the best of his or her information, knowledge and belief, and does not constitute a warranty or guarantee by the Engineer

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	Yes	No
Was a review performed of available information regarding the status of the CCR unit, including files in the operating record?	X	
Was a visual inspection performed (i) to identify signs of stress or malfunction of the CCR unit and appertenant structures, and (ii) of all hydraulic structures underlying the base or passing through the dike of the CCR unit for structural integrity and safe and reliable operation?	X	

Identify any changes in the geometry of the impounding structure since the previous annual inspection.

Stability of Excavation (SOE) tieback wall installed on downstream face of dam and monitored excavation at face of wall is progressing. CCR filling is in progress. Geomembrane rain cover partially installed on CCR within pond.

Verify the type, location, and condition of existing instrumentation (e.g. flow meter or staff gauge). Document the maximum recorded readings of each instrument since the previous annual inspection.

Groundwater wells MW-33, MW-34 and MW-35 observed and in good condition.
Slope inclinometers INC-1 and INC-2 observed and in good condition. INC-1 and INC-2 max readings of 1.2 and 1.3 inches of deflection, respectively, which is within acceptable range.
The primary outlet pipe has been plugged.

List the minimum, maximum, and present depth and elevation of impounded water and CCR since the previous annual inspection.

Minimum Depth (ft)	86.0	Maximum Depth (ft)	128.0	Present Depth (ft)	varies
Minimum Elev. (Ft)	312.0	Maximum Elev. (ft)	390.0	Present Elev. (ft)	varies

Present Storage Capacity: 4,300 Ac - Ft.

Present volume of the impounded water and CCR: 2,850 Ac - Ft.

Identify any appearances of an actual or potential structural weakness of the CCR unit or existing conditions that are disrupting or have the potential to disrupt the operation and safety of the CCR unit and appertenant structures.

None observed.

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Identify any changes that may have affected the stability or operation of the impounding structure since the previous annual inspection.

SOE tieback wall on the downstream face has been installed to support the excavation of the downstream toe. Excavation is monitored through survey, inclinometers, and piezometer water elevations.

Additional comments

The Bremo North Ash Pond meets the definition of an active surface impoundment under 40CFR 257.53 of the "Standards for the Disposal of Coal Combustion Residuals (CCR) in Landfills and Surface Impoundments". The North Ash Pond receives CCRs from the East Pond excavation, and at the time of my visit the fill activity was ongoing and the pond had a small volume of standing stormwater.