



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



	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	
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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 complete. CCR excavation from within the toe is complete.

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.

Slope inclinometers INC-1 and INC-2 observed and in good condition. INC-1 and INC-2 max readings of 1.4 and 1.1 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)	386.0	Present Elev. (ft)	varies

*** CCR SURFACE TOPOGRAPHY VARIES BETWEEN MIN AND MAX ELEVATION**

Present Storage Capacity: 4,300 Ac - Ft.

Present volume of the impounded water and CCR: 3,660 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.



GOLDER

Date of Inspection: 5/29/2019

Facility: Bremono North Pond

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. SOE wall is monitored through survey, inclinometers, and piezometer water elevations.

Additional comments

The Bremono North Ash Pond meets the definition of an existing 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 no longer receives CCRs, and at the time of my visit the geomembrane raincover installation was ongoing. Groundwater wells MW-33, MW-34 and MW-35 observed and in good condition.