



**Annual Inspection Report for Existing CCR Surface Impoundment**

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

**Owner Information**

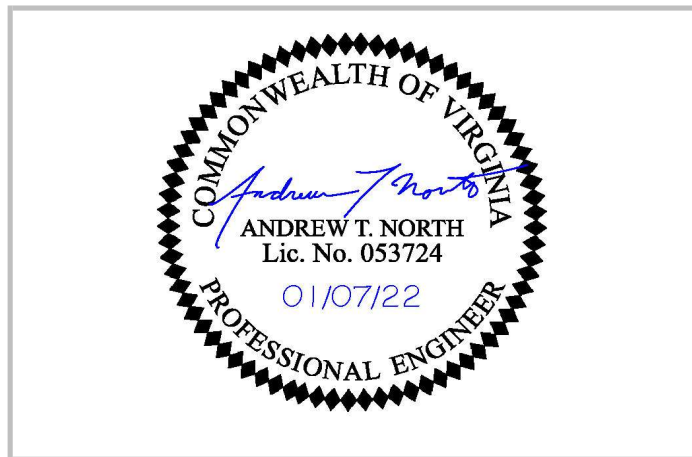
Name of Dam: Chesterfield Power Station Lower Ash Pond Dam  
Owner's Name: Virginia Electric and Power Company d.b.a. Dominion Energy Virginia  
State ID #: DCR Inventory # 041031, VPDES # VA0004146  
Owner Contact: Ginger Phelps - Senior Generation Construction Project Manager  
Dam Location: Chester, VA

**Engineer Information**

Name and Virginia License Number: Andrew North 053724  
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



Was a review performed of available information regarding the status of the CCR unit, including files in the operating record? 

Yes	No
X	

Was a visual inspection performed (i) to identify signs of stress or malfunction of the CCR unit and appurtenant 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.

None observed.

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.

Instrumentation		Location	Max. Reading	
Inclinometers	INC-1	SW Embankment near sheet pile wall	0.01	inches
	INC-2	SW Embankment near sheet pile wall	0.00	inches
	INC-3	Western embankment, mid-point	0.00	inches
	INC-5	Southern Embankment	0.74	inches
	INC-5N	Southern Embankment	0.00	inches
	TW-IN-04	Southern Embankment	0.88	inches
Piezometers	P-22	Western Embankment	8.24	feet
	P-23	SW Embankment	8.00	feet
	P-28	Southern Embankment	8.01	feet
	EXC-OW-01	Southern Embankment	23.96	feet
	TW-OW-03	Southern Embankment	3.56	feet
	TW-PZ-03	Southern Embankment	0.23	feet
	TW-OW-04	Southern Embankment	10.06	feet
	TW-PZ-04	Southern Embankment	25.97	feet

Notes:

1. New LAP Instrumentation was installed in 2021 to support upcoming pond closure activities.
2. All instrumentation was observed to be in good condition.
3. The maximum reading of the inclinometers was recorded as the maximum displacement of the tilt sensor in any direction (+ or - ) relative to the baseline measurement when the instrument was installed.
4. The maximum reading of the piezometers was recorded as the hydraulic head above mean sea level (MSL). The TW-PZ piezometers are recorded as change in pressure from a baseline.
5. Inc-5 was under maintenance from June 4, 2020 to October 28, 2021, and was reinstalled in a new casing with new designation of INC-5N.

**\*READINGS PROVIDED BY OTHERS**



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

Water level in pond:

Minimum Depth (ft)	0.0	Maximum Depth (ft)	2.0	Present Depth (ft)	0.5
Minimum Elev. (Ft)	8.0	Maximum Elev. (ft)	10.0	Present Elev. (ft)	8.5

CCR level in Pond:

Minimum Depth (ft)	18.0	Maximum Depth (ft)	34.0	Present Depth (ft)	Varies*
Minimum Elev. (Ft)	8.0	Maximum Elev. (ft)	24.0	Present Elev. (ft)	Varies*

\*CCR SURFACE TOPOGRAPHY VARIES BETWEEN MIN AND MAX ELEVATION

Maximum Storage Capacity: 1,779 Ac - Ft.

Present volume of the impounded water:	1	Ac - Ft.
Present volume of the impounded CCR:	1,408	Ac - Ft.
Present volume, total	1,409	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 appurtenant structures.

None observed.

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

None Observed

Additional comments

The Chesterfield Lower 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 Lower Ash Pond no longer receives CCRs and, at the time of my visit, was under a temporary geomembrane cover to minimize stormwater contact and infiltration.