



Date of Inspection: 10/28/2022

Facility: Chesterfield Lower 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: 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: Kevin Bishoff - Construction Project Manager

Dam Location: Chester, VA

Engineer Information

Name and Virginia License Number: Donald Mayer 029879

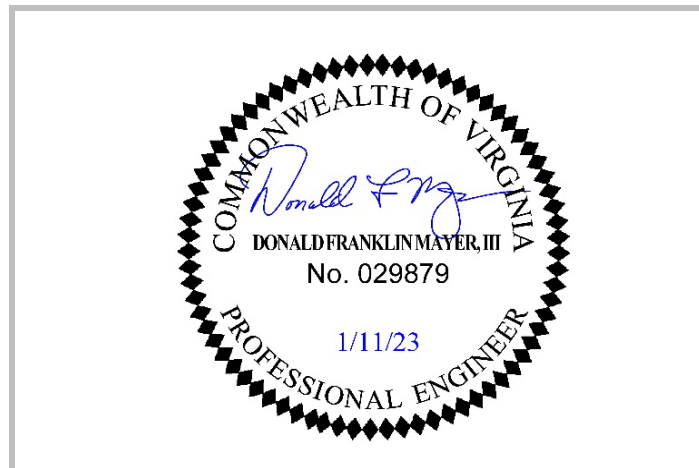
Firm Name: WSP USA Inc.

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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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.

In accordance with the Department of Conservation and Recreation (DCR) permit, effective June 15, 2022 through June 15, 2024, for Inventory Number 041031, a corridor has been constructed along the eastern embankment to support TRD wall installation.

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	0.24	inches
	INC-2	SW Embankment near sheet pile wall	0.31	inches
	INC-3	Western embankment, mid-point	0.10	inches
	INC-5N	Southern Embankment	0.29	inches
	TW-IN-04	Southern Embankment	-	inches
Piezometers	P-22	Western Embankment	8.10	feet
	P-23	SW Embankment	8.30	feet
	P-28	Southern Embankment	8.70	feet
	EXC-OW-01	Southern Embankment	-	feet
	TW-OW-03	Southern Embankment	-	feet
	TW-PZ-03	Southern Embankment	-	feet
	TW-OW-04	Southern Embankment	-	feet
	TW-PZ-04	Southern Embankment	-	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. TW-OW-03 and TW-OW-04 were removed December 10, 2021. TW-IN-04 was removed February 28, 2022. EXC-OW-01, TW-PZ-03, and TW-PZ-04 were removed on March 2, 2022.

***READINGS PROVIDED BY OTHERS**



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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)	<input type="text" value="0.0"/>	Maximum Depth (ft)	<input type="text" value="2.0"/>	Present Depth (ft)	<input type="text" value="0.5"/>
Minimum Elev. (Ft)	<input type="text" value="8.0"/>	Maximum Elev. (ft)	<input type="text" value="10.0"/>	Present Elev. (ft)	<input type="text" value="8.5"/>

CCR level in Pond:

Minimum Depth (ft)	<input type="text" value="18.0"/>	Maximum Depth (ft)	<input type="text" value="34.0"/>	Present Depth (ft)	<input type="text" value="Varies*"/>
Minimum Elev. (Ft)	<input type="text" value="8.0"/>	Maximum Elev. (ft)	<input type="text" value="24.0"/>	Present Elev. (ft)	<input type="text" value="Varies*"/>

***CCR SURFACE TOPOGRAPHY VARIES BETWEEN MIN AND MAX ELEVATION ACROSS THE HORIZONTAL PROFILE OF THE SURFACE IMPOUNDMENT**

Maximum Storage Capacity: Ac - Ft.

Present volume of the impounded water:	<input type="text" value="1"/> Ac - Ft.
Present volume of the impounded CCR:	<input type="text" value="1,404"/> Ac - Ft.
Present volume, total	<input type="text" value="1,405"/> 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.

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

Additional comments