Date of Inspection: 9/27/2019

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
State ID #:	DCR Inventory # 041031, VPDES # VA0004146
Owner Contact:	Jannina Gahagan - Environmental Compliance Manager
Dam Location:	Chester, VA

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**

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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 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	

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

Pond surface has been graded to drain and covered with geomembrane rain cover. New outlet structure has been installed (2 x 63" HDPE pipes) - old structure has been removed.

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	Install Date	Max. Reading	
Inclinometers	INC-1	SW Embankment near sheet pile wall	8/14/2018	0.01	inches
	INC-2	SW Embankment near sheet pile wall	8/14/2018	0.04	inches
	INC-3	Western embankment, mid-point	11/7/2018	0.62	inches
	INC-5	Southern Embankment	12/4/2018	0.60	inches
Piezometers	P-22	Western Embankment	11/1/2018	11.23	feet
	P-23	SW Embankment	11/1/2018	11.43	feet
	P-28	Southern Embankment	11/1/2018	13.17	feet

Notes:
1. All instrumentation was observed to be in good condition.
2. 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.
3. The maximum reading of the piezometers was recorded as the hydraulic head above mean sea level (MSL).
4. Install date is start of data collection.

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

Minimum Depth (ft)	3.5	Maximum Depth (ft)	22.3	Present Depth (ft)	Varies
Minimum Elev. (Ft)	5.5	Maximum Elev. (ft)	25.3	Present Elev. (ft)	Varies

* **Note**: Pond surface has been graded for drainage and covered with geomembrane rain cover

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.

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Date of Inspection: 9/27/2019

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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.

The CCR within the impoundment has been graded for drainage and a geomembrane rain cover has been installed. A new outfall structure has been installed to convey non-contact stormwater off of the rain cover.

Additional comments

None.