



Date of Inspection: 12/3/2024  
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

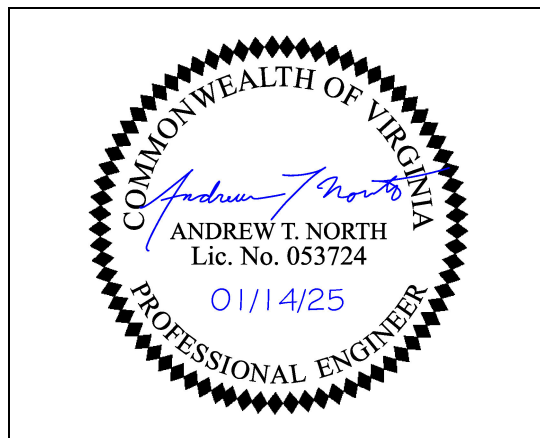
Name of Dam: Chesterfield Power Station Lower Ash Pond Dam  
Owner's Name: Virginia Electric and Power Company d.b.a. Dominion Energy Virginia  
State ID #: DCR Inventory # 041031, VPDES # VA0004146  
Owner Contact: Kevin Bishoff - Construction Project Manager  
Dam Location: Chester, VA

#### Engineer Information

Name and Virginia License Number: Andrew North 053724  
Firm Name: Schnabel Engineering  
Firm Address: 9800 JEB Stuart Parkway, Suite 100, Glen Allen, VA 23059  
Telephone No.: 804-649-7035

#### 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 |  |
|---|--|

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) permits, effective June 15, 2022 through June 15, 2024, and April 30, 2022 through April 30, 2023, for Inventory Number 041031, construction of the TRD wall and sheet pile wall have been completed.  
As described in the Construction Certification Report prepared by Haley & Aldrich, Inc., dated August 2024, construction of stability improvements along the south-eastern corner of the LAP have been completed.  
In accordance with the LAP Closure Plan, removal of CCR from the north-eastern corner of the LAP has been completed and soil backfill is being placed to support closure of the unit.

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-3         | Western Embankment, mid-point | N/A          | inches |
|                 | INC-5N        | Southern Embankment           | -0.22        | inches |
|                 | LAP-HA-TRD-03 | Western Embankment            | 0.52         | inches |
|                 | LAP-HA-TRD-04 | SW Embankment                 | -4.96        | inches |
|                 | LAP-HA-TRD-14 | SW Embankment                 | 0.73         | inches |
|                 | LAP-HA-TRD-15 | SW Embankment                 | 1.32         | inches |
|                 | LAP-HA-TRD-16 | SW Embankment                 | 2.08         | inches |
|                 | LAP-HA-TRD-17 | SW Embankment                 | 0.99         | inches |
|                 | LAP-HA-TRD-18 | SW Embankment                 | -2.87        | inches |
|                 | LAP-HA-TRD-19 | SW Embankment                 | -0.66        | inches |
| Piezometers     | P-22          | Western Embankment            | 7.50         | feet   |
|                 | P-23          | SW Embankment                 | 7.75         | feet   |
|                 | P-28          | Southern Embankment           | 9.40         | 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. Inclinometer INC-3 was temporarily buried to protect it from the TRD wall construction and was inaccessible for monitoring from 3/23/2023 to 12/6/2024.
5. Inclinometer LAP-HA-TRD-14 and LAP-HA-TRD-15 were decommissioned on 11/21/2023.
5. Inclinometer LAP-HA-TRD-18 was decommissioned on 12/11/2023.
6. Inclinometer LAP-HA-TRD-19 was decommissioned on 12/25/2023.
7. Inclinometer LAP-HA-TRD-04 was decommissioned on 02/21/2024.

\* 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) | 0.0 | Maximum Depth (ft) | 2.0 | Present Depth (ft) | 0.0 |
| Minimum Elev. (ft) | 4.0 | Maximum Elev. (ft) | 6.0 | Present Elev. (ft) | 4.0 |

CCR level in Pond:

|                    |      |                    |      |                    |         |
|--------------------|------|--------------------|------|--------------------|---------|
| Minimum Depth (ft) | 0.0  | Maximum Depth (ft) | 32.0 | Present Depth (ft) | Varies* |
| Minimum Elev. (ft) | -4.2 | Maximum Elev. (ft) | 28.0 | Present Elev. (ft) | Varies* |

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

Maximum Storage Capacity: 1,779 Ac-Ft.

|                                        |       |          |
|----------------------------------------|-------|----------|
| Present volume of the impounded water: | 0     | Ac - Ft. |
| Present volume of the impounded CCR:   | 1,096 | Ac - Ft. |
| Present volume, total:                 | 1,096 | 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.

In accordance with the Department of Conservation and Recreation (DCR) permit, effective June 15, 2022 through June 15, 2024, for Inventory Number 041031, construction of the TRD wall and sheet pile wall have been completed. As described in the Construction Certification Report prepared by Haley & Aldrich, Inc., dated August 2024, construction of stability improvements along the south-eastern corner of the LAP have been completed. No other changes affecting the stability or operation of the unit were noted.

Additional comments

The Chesterfield Lower Ash Pond meets the definition of an existing surface impoundment under 40 CFR 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 CCR. Construction activities are supported by sumps, pumping systems, and temporary geomembrane covers, as needed, to manage contact and non-contact stormwater runoff. Material is currently being removed and transferred to the onsite landfill for disposal to support closure of the unit.