

# Report to the North Carolina General Assembly's Environmental Review Commission

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## *Coal Ash Quarterly Report*

July 1, 2022



**NORTH CAROLINA DEPARTMENT OF  
ENVIRONMENTAL QUALITY**

**Pursuant to General Statute (G.S.) 130A-309.204(a)**

## **Department of Environmental Quality Quarterly Report June 1, 2022**

### **Regulatory Background**

This report is submitted to meet the requirements of General Statute 130A–309.204, which requires the Department of Environmental Quality (DEQ) to submit quarterly reporting on operations, activities, programs and progress relating to coal combustion residuals surface impoundments. Specifically, General Statute (G.S.) 130A–309.204(a) states:

*The Department shall submit quarterly written reports to the Environmental Review Commission on its operations, activities, programs, and progress with respect to its obligations under this Part concerning all coal combustion residuals surface impoundments. At a minimum, the report shall include information concerning the status of assessment, corrective action, prioritization, and closure for each coal combustion residuals surface impoundment and information on costs connected therewith. The report shall include an executive summary of each annual Groundwater Protection and Restoration Report submitted to the Department by the operator of any coal combustion residuals surface impoundments pursuant to G.S. 130A–309.211(d) and a summary of all groundwater sampling, protection, and restoration activities related to the impoundment for the preceding year. The report shall also include an executive summary of each annual Surface Water Protection and Restoration Report submitted to the Department by the operator of any coal combustion residuals surface impoundments pursuant to G.S. 130A–309.212(e) and a summary of all surface water sampling, protection, and restoration activities related to the impoundment for the preceding year, including the status of the identification, assessment, and correction of unpermitted discharges from coal combustion residuals surface impoundments to the surface waters of the State. The Department shall supplement the written reports required by this subsection with additional written and oral reports as may be requested by the Environmental Review Commission. The Department shall submit the written reports required by this subsection whether or not the General Assembly is in session at the time the report is due.*

### **Report Structure**

This report is broken down by the N.C. Department of Environmental Quality Divisions of Water Resources, Waste Management, and Energy, Mineral, and Land Resources. The information provided is either on-going or has occurred since the submittal of the previous quarterly report.

### **Acronyms**

The following acronyms may be used in the sections below:

- A/M – Approval with Modifications
- BTVs – Background Threshold Values
- CAP – Corrective Action Plan
- CCR – Coal Combustion Residuals
- CCP – Coal Combustion Products
- COAR – Certificate of Approval to Repair

- COC – Certificate of Coverage
- COFA – Certificate of Final Approval
- CQA – Construction Quality Assurance
- CSA – Comprehensive Site Assessment
- DEQ – North Carolina Department of Environmental Quality
- DORS – Distribution of Residual Solids
- DWM – Division of Waste Management
- DWR – Division of Water Resources
- EAP – Emergency Action Plan
- EMC – Environmental Management Commission
- EOR – Engineer of Record
- ESC or E&SC – Erosion and Sediment Control Plan
- FGD – Flue-gas Desulfurization
- NOD – Notice of Deficiency
- NOI – Notice of Intent
- NOI – Notice of Inspection (DEMLR)
- NOV – Notice of Violation
- NPDES – National Pollution Discharge Elimination System
- PTC – Permit to Construct
- PTO – Permit to Operate
- SOC – Special Order by Consent
- UIC – Underground Injection Control
- WQMP – Water Quality Monitoring Plan

## DIVISION OF WATER RESOURCES

**Duke Energy facilities with Surface Impoundments.** Division of Water Resources regulates Surface Impoundments in accordance with the Coal Ash Management Act (CAMA) as well as the General Statute 143–215, *Control of Sources of Water Pollution; Permits Required* and State Administrative Code 15A NCAC 2L *Classification and Water Quality Standards Applicable to Groundwaters of the State*.

### **General Status of Surface Impoundments:**

The following are general status notes for all facilities, except where stated.

#### Corrective Action Status

Individual site-specific status notes included in the next section.

#### Prioritization and Closure Status [G.S. 130A–309.213]

Currently, all facilities are ranked as high, intermediate, or low priority.

- Facilities classified as high-risk per Session Law 2014–122 Senate Bill 729 Section 3.(b) are:
  - Asheville Steam Station
  - Dan River Combined Cycle Station
  - Riverbend Steam Station
  - L. V. Sutton Energy Complex

High-risk impoundments are required to be closed no later than December 31, 2019. Proposed plans were submitted by December 31, 2016.

- Facilities classified as intermediate-risk per Session Law 2016–95 House Bill 630 Section 3.(a) are:
  - H. F. Lee Energy Complex
  - Cape Fear Steam Electric Plant
  - W. H. Weatherspoon Power Plant

These three facilities and the Buck Combined Cycle Station have also been selected by Duke Energy for beneficiation under G.S. 130A–309.216. Per G.S. 130A–309.216(c), sites selected for ash beneficiation projects shall be closed no later than December 31, 2029.

- Facilities classified as low risk per G.S. 130A–309.213 are:
  - Allen Steam Station
  - Belews Creek Steam Station
  - Buck Combined Cycle Station
  - James E. Rogers Energy Complex (formerly Cliffside Steam Station)
  - Marshall Steam Station

- Mayo Steam Electric Plant
- Roxboro Steam Electric Plant

On November 13, 2018, DEQ deemed that these facilities are low risk based on criteria under G.S. 130A–309.213(d)(1).

Low–risk impoundments are required to be closed no later than December 31, 2029. A proposed closure plan for low–risk impoundments must be submitted no later than December 31, 2019. Intermediate–risk impoundments are required to be closed no later than December 31, 2024. A proposed closure plan for intermediate–risk impoundments was submitted by December 31, 2019. The closure dates have been superseded by the Consent Order that was signed February 5, 2020.

#### Consent Order

On February 5, 2020, a Consent Order was signed between Duke Energy, Plaintiff-Intervenors, and DEQ. The Consent Order required site-specific actions that supersede all other agreements, general statutes, and laws and only affects the Allen Steam Station, Belews Creek Steam Station, James E. Rogers Energy Complex (Cliffside Steam Station), Marshall Steam Station, Mayo Steam Electric Plant, and the Roxboro Steam Electric Plant. The Consent Order can be found on the DEQ website at:

<https://deq.nc.gov/media/15176/download>

#### Beneficial Reuse [G. S.130A–309.216]

Per G.S. 130A–309.216, Duke Energy was required to identify, at a minimum, three sites for beneficial reuse. Along with the Cape Fear Steam Electric Plant, H.F. Lee Energy Complex, and the W. H. Weatherspoon Power Plan, the Buck Combined Cycle Station was additionally selected for beneficial reuse. G.S. 130A–309.216(c) states that sites selected for beneficitation projects must close by December 31, 2029.

#### General Costs [G.S. 130–309.214(m)]

Costs are required to be included with the site closure plans and corrective action plans.

- Closure plans for the high–risk impoundments were submitted in January 2017 but were deemed incomplete by the DEQ. These plans included general cost estimates and were labeled confidential.
- Cost estimates are included in the Updated CAPs.

### **Site Specific Actions for Surface Impoundments**

The following site-specific actions and status notes have occurred since the submittal of the previous quarterly report.

#### **All Facilities**

- February 28, 2022 – Duke submits updated schedule to submit upcoming and remaining reports.
  - March 7, 2022 – DWR approves the updated schedules.
- DWR is currently in the process of developing a surface water evaluation for all sites. The results will be submitted to Duke Energy and will be used in their development of surface water assessment plans.

#### **Allen Steam Station**

- Assessment and Corrective Action Status
  - May 18, 2022 – Duke Energy submits a plan to do limited two-year study at Allen, Cape Fear, and Dan River. The proposed study will focus on sampling wells with high turbidity and high pH using a “No Purge” methodology.
    - May 24, 2022 – DWR submits comments and questions on this proposed study back to Duke.
  - Duke is continuing to implement the approved corrective actions.
- Closure Status
  - Closure is on-going.
- NPDES permit NC0004979
  - No update this quarter.

#### **Asheville Steam Electric Plant**

- Assessment and Corrective Action Status
  - April 29, 2022 – Duke submits request to leave a minor amount of ash in the 1964 basin within a vertical wall due to the impracticality of removing the ash and safety concerns.
    - DWR is currently reviewing the request.
- Closure Status
  - Excavation of the 1964 Basin is in progress.
  - Excavation of the 1982 Basin is complete.
- NPDES permit NC0000396
  - No updated this quarter.
- SOC S17-010
  - May 18, 2022 – SOC terminated.

#### **Belews Creek Steam Station**

- Assessment and Corrective Action Status
  - May 17, 2022 – DWR approves Duke’s request for extending the submittal date for the Coal Pile and Gypsum Pad CSA due to laboratory issues.

- Duke is continuing to implement the approved corrective actions.
- Closure Status
  - Closure is on-going.
- NPDES permit NC0024406
  - No update this quarter

#### Buck Combined Cycle Station

- Assessment and Corrective Action Status
  - February 22, 2022 – Duke submits responses to DWR’s CSA Comments letter dated
    - March 10, 2022 – DWR sends response to the comments back to Duke.
- Closure Status
  - Closure is on-going.
- NPDES Permit NC0004774
  - No update this quarter.
- SOC S18-004
  - May 18, 2022 – SOC terminated.

#### Cape Fear Steam Electric Plant

- Assessment and Corrective Action Status
  - May 18, 2022 – Duke Energy submits a plan to do limited two-year study at Allen, Cape Fear, and Dan River. The proposed study will focus on sampling wells with high turbidity and high pH using a “No Purge” methodology.
    - May 24, 2022 – DWR submits comments and questions on this proposed study back to Duke.
  - No updates this quarter.
- Closure Status
  - Closure is on-going.
- NPDES permit NC0003433
  - No update this quarter.
- SOC S19-001
  - No update this quarter.

#### James E. Rogers Energy Complex (Formerly Cliffside Steam Station)

- Assessment and Corrective Action Status
  - March 2, 2022 – Duke submits surface water assessment for the Switchyard Area.
    - DWR is currently reviewing. DEQ’s surface water evaluation should cover this area.
  - Duke is continuing to implement the approved corrective actions.
- Closure Status
  - January 24, 2022 – Duke submits visual verification, Polarized Light Microscopy results, from the Ash Storage Area at the Rogers Energy Complex.

- May 5, 2022 – DEQ sends approval to Duke.
  - Closure is on-going.
  - Excavation of the Inactive Units 1–4 is complete.
- NPDES permit NC0005088
  - No update this quarter.

#### Dan River Combined Cycle Station

- Assessment and Corrective Action Status
  - May 18, 2022 – Duke Energy submits a plan to do limited two-year study at Allen, Cape Fear, and Dan River. The proposed study will focus on sampling wells with high turbidity and high pH using a “No Purge” methodology.
    - May 24, 2022 – DWR submits comments and questions on this proposed study back to Duke.
  - Duke is continuing to implement the approved corrective actions.
- Closure Status
  - Duke is in post-closure monitoring.
  - Excavation is complete.
- NPDES permit NC0003468
  - No update this quarter.

#### H. F. Lee Energy Complex

- Assessment and Corrective Action Status
  - No updates this quarter.
- Closure Status
  - Closure is on-going.
- NPDES permit NC0003417
  - No update this quarter.
- SOC S18–006
  - No update this quarter.

#### Marshall Steam Station

- Assessment and Corrective Action Status
  - February 11, 2022 – Duke submits formal groundwater optimization plan for the site.
    - May 24, 2022 – DWR submits comments back to Duke.
  - Duke is continuing to implement the approved corrective actions.
- Closure Status
  - Closure is on-going.
- NPDES permit NC0004987
  - May 13, 2022 – Permit issued.



### Mayo Steam Electric Plant

- Assessment and Corrective Action Status
  - Duke is continuing to implement the approved corrective actions.
- Closure Status
  - Closure is on-going.
- NPDES permit NC0038377
  - No update this quarter.
- SOC S18-005
  - May 18, 2022 – SOC terminated.

### Riverbend Steam Station

- Assessment and Corrective Action Status
  - Duke is continuing to implement the approved corrective actions.
- Closure Status
  - Duke is in post-closure monitoring.
  - Excavation is complete.
- NPDES permit NC0004961
  - No update this quarter.

### Roxboro Steam Electric Plant

- Assessment and Corrective Action Status
  - May 16, 2022 – DEQ sends general responses to Duke's responses on DEQ's Updated CAP comments. This was due to a recent submittal that satisfied the comments.
  - February 7, 2022 – Duke submits request to approve excavation grades for the Eastern Extension Impoundment.
    - April 4, 2022 – DEQ sends conditional approval to Duke.
  - Duke is continuing to implement the approved corrective actions.
- Closure Status
  - February 7, 2022 – Duke submits request for approval of excavation grades for the Eastern Extension Impoundment.
  - Closure is on-going.
- NPDES permit NC0003425
  - No update this quarter.

### L. V. Sutton Energy Complex

- Assessment and Corrective Action Status
  - Duke is continuing to implement the approved corrective actions.
- Closure Status
  - Duke is in post-closure monitoring.
  - Excavation of the 1971 Basin is complete.
  - Excavation of the 1984 Basin is complete.

- NPDES permit NC0001422
  - No update this quarter.

#### W. H. Weatherspoon Power Plant

- Assessment and Corrective Action Status
  - No update this quarter.
- Closure Status
  - Closure is on-going.
- NPDES permit NC0005363
  - No update this quarter.
- SOC S19-006
  - No updates this quarter.

#### Annual Groundwater Protection and Restoration Report Summary

The Annual Groundwater Protection and Restoration Reports have been uploaded to the [DEQ website](#). Since the reports are very concise, they do not lend themselves to being summarized. The report summarizes all groundwater sampling, protection, and restoration activities related to the impoundment for the preceding year.

#### Annual Surface Water Protection and Restoration Report Summary

The Annual Surface Water Protection and Restoration Reports have been uploaded to the [DEQ website](#). Since the reports are very concise, they do not lend themselves to being summarized. The report summarizes all groundwater sampling, protection, and restoration activities related to the impoundment for the preceding year.

## DIVISION OF WASTE MANAGEMENT

### Landfills At Duke Energy Coal Ash Facilities

#### Allen Steam Station – Gaston County (current coal fired)

- Excavation Plan
  - No update this quarter.
- Site Visits
  - April 19, 2022 – Site visit to see progress of North Starter landfill.
- 3612-INDUS-2008: Retired Ash Basin Landfill (open, double-lined, landfill constructed on top of retired ash basin).
  - No update this quarter.
- 3619-INDUS-2021: North Starter Landfill
  - No update this quarter.
- 3620-INDUS-2022: South Starter Landfill
  - April 27, 2022 – DEQ issued PTC/PTO.
- 3621-INDUS-20XX: Basin Landfill
  - No update this quarter.

#### Asheville Steam Electric Plant – Buncombe County (retired coal-fired plant, converted to combined cycle turbine)

- Excavation Plan
  - No update this quarter
- Site Visits
  - June 24, 2022 – annual site inspection scheduled.
  - June 15, 2022 – virtual records review scheduled.
- 1119-INDUS-2020
  - No update this quarter.

#### Belews Creek Steam Station – Stokes County (current coal fired)

- Excavation Plan
  - No update this quarter.
- Site Visits
  - No updates this quarter.
- 8503-INDUS-1984: Pine Hall Road Landfill (closed, unlined – composite cap system)
  - No update this quarter.
  - Groundwater Assessment
    - No update this quarter.
- 8504-INDUS-2007: Craig Road Landfill (open, lined)
  - No update this quarter.
  - Groundwater Assessment
    - No update this quarter.
- 8505-INDUS-2008: Flue Gas Desulfurization (FGD) Landfill (open, lined)
  - April 25, 2022 – DEQ issued approval of revised/updated Water Quality Monitoring Plan.
  - March 30, 2022 – Duke submitted revised/updated Water Quality Monitoring Plan

- Groundwater Assessment.
  - No update this quarter.
- 8506-INDUS-2021: Basin Landfill
  - No update this quarter.

Dan River Steam Station – Rockingham County (retired coal-fired plant, converted to combined cycle turbine)

- Site Visits
  - No update this quarter.
- 7906-INDUS-2016: CCR Landfill (open, lined)
  - No update this quarter.

Mayo Steam Electric Plant – Person County (current coal fired)

- Excavation Plan
  - No update this quarter.
- Site Visits
  - June 29, 2022 – Second quarterly (Q2 2022) site visit scheduled.
- 7305-INDUS-2012: CCR Landfill (open, double lined)
  - No update this quarter.
  - Groundwater Assessment
    - No update this quarter.
- 7307-INDUS-2021: Basin Landfill
  - No update this quarter.

Marshall Steam Station – Catawba County (current coal fired)

- Excavation Plan
  - No update this quarter.
- Stability Features
  - March 29, 2022 – Duke submitted Stability Feature Investigation Work Plan for features at 1804, Dry Ash Landfill.
- Site Visits
  - April 22, 2022 – Site visit to see progress of construction of Cell 5, Cell 6, and leachate basin for landfill expansion of 1812 and to see finished excavation of 1804, Phase 1.
  - March 18, 2022 – Site visit to see progress of construction of Cell 5 and leachate basin for landfill expansion at 1812 and see finished excavation of 1804, Phase 1.
- 1804-INDUS-1983: Dry Ash Landfill (closed, unlined – Phase 2 composite cap system)
  - Phase 1 excavation complete.
  - Groundwater Assessment
    - No update this quarter.
- 1809-INDUS: FGD Landfill (closed, lined)
  - No update this quarter.
  - Groundwater Assessment
    - No update this quarter.
- 1812-INDUS-2008: Industrial Landfill #1 (open, double-lined)

- Leachate basin construction underway.
- Continued operation of landfill – Phase 1, Cells 1 - 4.

Rogers Energy Complex – Rutherford County (current coal fired)

- Excavation Plan
  - No update this quarter.
- Site Visits
  - No update this quarter.
- 8106–INDUS–2009: CCR Landfill (open, lined)
  - No update this quarter.

Roxboro Steam Electric Plant – Person County (current coal fired)

- Excavation Plan
  - No update this quarter.
- Site Visits
  - June 29, 2022 – Second quarterly (Q2 2022) site visit scheduled.
- Stability Feature
  - May 5, 2022 – DWM issued approval to begin construction of DMM Wall
  - March 25, 2022 – Final DMM Wall Design Report submitted
- 7302–INDUS–2021: Proposed new onsite landfill expansion (double lined, partially on top of excavated ash basin)
  - No update this quarter.

Sutton Steam Electric Plant – New Hanover County (retired coal–fired plant, converted to combined cycle turbine)

- 6512–INDUS–2016: CCR Landfill (closed, double lined)
  - No updates this quarter.
- Site Visits
  - April 14, 2022 –Annual site inspection with records review on site.

**Landfills Not on Duke Energy Facilities**

Halifax County Industrial Landfill – Halifax County Westmoreland Partners, Roanoke Valley Energy Plant (retired coal–fired plant, plant closed)

- 4204–INDUS–1994: Halifax County Coal Ash Landfill (open/inactive, lined)
  - No update this quarter.

**Duke Energy Facilities Without Landfills**

Buck Steam Station – Rowan County (retired coal–fired plant, converted to combined cycle turbine)

- Excavation Plan
  - No update this quarter.
- Continued operation of STAR plant.

Cape Fear Steam Electric Plant – Chatham County (retired coal-fired plant, no electricity production)

- Excavation Plan
  - No update this quarter.
- Continued operation of STAR plant.

H.F. Lee Steam Electric Plant – Wayne County (retired coal-fired plant, converted to combined cycle turbine)

- Excavation Plan
  - No update this quarter.
- Continued operation of STAR plant.

Riverbend Steam Station – Gaston County (retired coal-fired facility, no electricity)

- No update this quarter.

Weatherspoon Steam Electric Plant – Robeson County (retired coal-fired facility, no electricity)

- Excavation Plan
  - No update this quarter.
- Continued excavation of CCR and trucked to concrete factory in South Carolina.

### **Coal Combustion Product (CCP) Structural Fills**

The Section regulates large structural fills (greater than 8,000 tons per acre or 80,000 tons per project) in accordance with CAMA and small existing structural fills in accordance with 15A NCAC 13B .1713.

Greater Asheville Regional Airport Authority (GARAA), 1117-STRUC-2020, Buncombe County

- No update this quarter.

Brickhaven No. 2, Mine Track “A,” 1910-STRUC-2015 – Chatham County

- No update this quarter.

Colon Mine Site – Lee County, 5306-STRUC-2015

- No update this quarter.

**Inventory of structural fills greater than 10,000 cy, per Session Law 2014 122:**  
<http://deq.nc.gov/about/divisions/waste-management/solid-waste-section/coal-combustion-byproducts>.

### **Groundwater Assessment and Corrective Action**

Roxboro Steam Station Gypsum Storage Pad (CCB0003)

- No update this quarter.

Belews Creek Steam Station Structural Fill (CCB0070)

- No update this quarter.

Swift Creek in Nash County (CCB0057)

- No update this quarter.

Arthur's Creek/Henry Long Property in Northampton County (CCB0064)

- No update this quarter.

**Historic Ash Management Area**

6806-INDUS-Eno Power Plant – Historic Coal Ash Storage Area

- No update this quarter.

## **DIVISION OF ENERGY, MINERAL, AND LAND RESOURCES**

**Duke and other Company facilities with dams, construction development, industrial activities, and mining operations-** The North Carolina Division of Energy, Mineral, and Land Resources regulates industrial coal combustion residual landfills in accordance with CAMA as well as the State Dam Safety Law (NCGS 143-215.23), the Sedimentation Pollution Control Act (NCGS 113A-50), the Mining Act (NCGS 74-46), and the State Stormwater Program under the authority of multiple Session Laws along with their associated Administrative Code.

### **Allen Steam Station**

- Dam Safety
  - No update this quarter.
- Erosion and Sediment Control and Construction Storm Water
  - No update this quarter.
- NPDES Storm Water
  - NCS000546
    - 4/12/22 - Permit issued; Effective 5/1/22; expires 4/30/27.

### **Asheville Steam Electric Plant**

- Dam Safety
  - BUNCO-097 (ASHEVILLE 1964 ASH POND DAM)
    - 5/4/22 – Emergency Action Plan Approval (Update Version: 014) with some recommendations for upcoming update.
- Erosion and Sediment Control and Construction Storm Water
  - No update this quarter.
- NPDES Storm Water
  - NCS000575
    - No update this quarter.

### **Belews Creek Steam Station**

- Dam Safety
  - STOKE-116, STOKE-120, STOKE-121
    - 3/16/22 - Conducted Annual Inspections of Dams
- Erosion and Sediment Control and Construction Storm Water
  - STOKE-2022-013 – Belews Creek Corrective Action Plan (CAP) E&SC Plan
    - 5/4/22 – New plan approved (express)
- NPDES Storm Water
  - NCS000573
    - No update this quarter.



### **Buck Combined Cycle Station**

- Dam Safety
  - ROWAN-079 (BUCK RETENTION BASIN DAM)
    - 2/22/22 – Received additional information for Revision of Jurisdictional Determination (JD) for ROWAN-079.
      - 3/4/22 – JD Letter (Intermediate Hazard) issued.
- Erosion and Sediment Control and Construction Storm Water
  - No update this quarter.
- NPDES Storm Water
  - NCG130090
    - No update this quarter.
  - NCS000554
    - No update this quarter.
  - NCS000556
    - No update this quarter.
  - NCS000578
    - No update this quarter.
  - Permittee has expressed a wish to combine NCS000554 and NCS000578 into a single permit. This will be explored further at time of permit renewal.

### **Cape Fear Steam Electric Plant**

- Dam Safety
  - CHATH-022 (Buckhorn Lake Dam)
    - 3/1/22 and 2/22/22 – Received additional information for As-Built submittal for lowering crest of the existing earthen embankment to improve dam & abutment stability for CHATH-022, Scope 3.
      - 3/3/22 – Certificate of Final Approval to Modify issued.
- Erosion and Sediment Control and Construction Storm Water
  - No update this quarter.
- NPDES Storm Water
  - NCS000574
    - No update this quarter.

### **James E. Rogers Energy Complex (Formerly Cliffside Steam Station)**

- Dam Safety
  - CLEVE-047 (CLIFFSIDE RETENTION BASIN MAIN DAM).
    - 3/14/22 – Emergency Action Plan Approval (Update Version: 003) with some recommendations for upcoming update.
- Erosion and Sediment Control and Construction Storm Water
  - No update this quarter.
- NPDES Storm Water
  - NCS000571

- 4/13/2022 – Draft permit public noticed; Finalized permit submitted to supervisor for signature 5/27/2022.

### **Dan River Combined Cycle Station**

- Dam Safety
  - ROCKI-239 (LOW HEAD DIVERSION DAM).
    - 3/1/22 – Received additional information for As-Built submittal to Install post-tensioned anchors to improve performance standards against sliding and overturning for ROCKI-239 Scope 1.
      - 3/9/22 – Certificate of Final Approval to Modify issued.
    - 3/1/22 – Received additional information for As-Built submittal to Install a cast-in-place concrete bulkhead for use in each of the gated spillways to replace the steel gates for ROCKI-239 Scope 2.
      - 3/9/22 – Certificate of Final Approval to Modify issued.
- Erosion and Sediment Control and Construction Storm Water
  - No update this quarter.
- NPDES Storm Water
  - NCS000572
    - Draft permit in progress.
      - 5/17/22 – Inspected to verify information for reissuance of the permit. No compliance issues were noted.

### **H.F. Lee Energy Complex**

- Dam Safety
  - WAYNE-009, WAYNE-022, WAYNE-031, WAYNE-032, WAYNE-033
    - 4/28/22 – Conducted Annual Inspections of Dams
  - WAYNE-009 (HF LEE COOLING LAKE DAM)
    - 3/16/2022 – Received revised submittal for Vegetation Removal and Modifications to the Cooling Pond Dam to remedy a seep located on the southwestern end of the dam for WAYNE-009 Scope 8.
      - 4/13/22 – Certificate of Approval to Modify issued.
  - WAYNE-032 (HF LEE INACTIVE ASH BASIN DAM #2)
    - 3/16/2022 – Received withdrawal request for Certificate of Approval to Modify – Scope 6 (relocation of a 200-foot section of dam near the Half-Mile Branch Stream) due to completion of another Scope 7 (emergency repair of existing dam by installation of sheet piles).
      - 3/31/22 – Certificate of Approval to Withdraw issued.
- Erosion and Sediment Control and Construction Storm Water
  - 3/28/2022 – E&SC approval for the SE Lee Plant Flooded Substation Initiative.
- NPDES Storm Water
  - NCG130094
    - No update this quarter.
  - NCG200529

- No update this quarter.

### **Marshall Steam Station**

- Dam Safety
  - No update this quarter.
- Erosion and Sediment Control and Construction Storm Water
  - No update this quarter.
- NPDES Storm Water
  - NCS000548
    - No update this quarter.
  - NCS000579
    - No update this quarter.

### **Mayo Steam Electric Plant**

- Dam Safety
  - PERSO-034, PERSO-035, PERSO-049, PERSO-050
    - 4/12/22 – Conducted Annual Inspections of Dams
- Erosion and Sediment Control and Construction Storm Water
  - No update this quarter.
- NPDES Storm Water
  - NCS000580
    - No update this quarter.
  - NCG120101
    - No update this quarter.

### **Riverbend Steam Station**

- Dam Safety
  - No update this quarter.
- Erosion and Sediment Control and Construction Storm Water
  - No update this quarter.
- NPDES Storm Water
  - NCS000549
    - No update this quarter.

### **Roxboro Steam Electric Plant**

- Dam Safety
  - PERSO-013 (ROXBORO AFTERBAY DAM)
    - 5/11/22 – Received a plan for providing auxiliary spillway to increase spillway capacity for Roxboro Afterbay Dam, Scope 1.
  - PERSO-002 (LAKE HYCO DAM)
    - 4/6/22 – As-built inspection done for Upgrading of Emergency Spillway Scope 4.
      - 4/7/22 – Certificate of Final Approval issued.

- PERSO-002, PERSO-013, PERSO-033, PERSO-038, PERSO-039, PERSO-047, PERSO-048
  - 4/6/22 – Conducted Annual Inspections of Dams
- Erosion and Sediment
  - No update this quarter.
- NPDES Storm Water
  - NCS000581
    - No update this quarter.

**L. V. Sutton Energy Complex**

- Dam Safety
  - No update this quarter.
- Erosion and Sediment Control and Construction Storm Water
  - No update this quarter.
- NPDES Storm Water
  - No update this quarter.

**Brickhaven No 2. Tract “A”**

- Dam Safety
  - No update this quarter.
- Erosion and Sediment Control
  - No update this quarter.
- Mining
  - No update this quarter.
- NPDES Storm Water
  - NCG020354
    - No update this quarter.

**Colon Mine Permit 53-05**

- Dam Safety
  - No update this quarter.
- Erosion and Sediment Control
  - No update this quarter.
- Mining
  - No update this quarter
- NPDES Storm Water
  - NCG020854
    - No update this quarter.

**W. H. Weatherspoon Power Plant**

- Dam Safety
  - ROBES-004 (WEATHERSPOON COOLING POND)
    - 4/27/22 – As built inspection done for the abandonment of the former outfall structure and improvement to the dike in that area, Scope 3.
      - 5/2/22 – Certificate of Final Approval to Repair issued
  - ROBES-004, ROBES-009
    - 4/27/22 – Conducted Annual Inspections of Dams
  - ROBES-004 (WEATHERSPOON COOLING POND)
    - 4/25/22 – Emergency Action Plan Approval (Update Version: 012) with some recommendations for upcoming update.
  - ROBES-009 (WEATHERSPOON ASH POND)
    - 4/25/22 – Emergency Action Plan Approval (Update Version: 012) with some recommendations for upcoming update.
- Erosion and Sediment Control and Construction Storm Water
  - No update this quarter.
- NPDES Storm Water
  - NCS000589
    - No update this quarter.

**Dam Status**

Plant Name	NAME	NC STATE-ID	DAM STATUS
Allen Steam Station	Allen Active Ash Basin Dam	GASTO-061	ACTIVE
Allen Steam Station	Allen Inactive Ash Basin Dam	GASTO-016	INACTIVE
Allen Steam Station	Allen Retention Basin Dam	GASTO-324	ACTIVE
Asheville Steam Electric Plant	Lake Julian Dam	BUNCO-088	ACTIVE
Asheville Steam Electric Plant	Asheville 1982 Ash Pond Dam	BUNCO-089	DECOMISSIONED
Asheville Steam Electric Plant	Asheville 1964 Ash Pond Dam	BUNCO-097	ON-GOING DECOMISSION
Asheville Steam Electric Plant	Asheville Lined Retention Basin Dam	BUNCO-101	ON-GOING DECOMISSION
Asheville Steam Electric Plant	North Stormwater Pond Dam	BUNCO-504	ON-GOING CONSTRUCTION
Asheville Steam Electric Plant	South Stormwater Pond Dam	BUNCO-505	ON-GOING CONSTRUCTION
Belews Creek Steam Station	Belews Creek Active Ash Basin Dam	STOKE-116	ACTIVE
Belews Creek Steam Station	Belews Lake Dam	ROCKI-236	ACTIVE

Belews Creek Steam Station	Belews Lake Saddle Dike #1 Dam	STOKE-117	ACTIVE
Belews Creek Steam Station	Belews Lake Saddle Dike #2 Dam	STOKE-118	ACTIVE
Belews Creek Steam Station	Belews Lake Saddle Dike #3 Dam	STOKE-119	ACTIVE
Belews Creek Steam Station	Belews Lake Saddle Dike #4 Dam	ROCKI-235	ACTIVE
Belews Creek Steam Station	Belews Creek Chemical Pond Dam	STOKE-115	ACTIVE
Belews Creek Steam Station	Belews Creek Retention Basin Dam	STOKE-121	ACTIVE
Belews Creek Steam Station	Belews Creek Holding Basin Dam	STOKE-120	ACTIVE
Belews Creek Steam Station	Belews Creek South Coal Pile Dam	STOKE-123	ACTIVE
Belews Creek Steam Station	Belews Creek North Coal Pile Dam	STOKE-122	ACTIVE
Buck Combined Cycle Station	Buck Main Ash Basin Dam	ROWAN-047	ACTIVE
Buck Combined Cycle Station	Buck Ash Basin #1 Dam	ROWAN-068	ACTIVE
Buck Combined Cycle Station	Buck Basin #1 to Basin #2 Dam	ROWAN-069	ACTIVE
Buck Combined Cycle Station	Buck Basin #2 to Basin #3 Dam	ROWAN-070	ACTIVE
Buck Combined Cycle Station	Buck Ash Basin Divider Dam	ROWAN-071	ACTIVE
Buck Combined Cycle Station	Buck Fuel Containment Dam	ROWAN-072	DECOMISSIONED
Buck Combined Cycle Station	Buck Beneficial Ash Wet Pond	ROWAN-076	ACTIVE
Buck Combined Cycle Station	Buck Beneficial Ash Dry Pond	ROWAN-075	ACTIVE
Buck Combined Cycle Station	Buck Retention Basin Dam	ROWAN-079	ACTIVE
Cape Fear Steam Electric Plant	Buckhorn Lake Dam	CHATH-022	ACTIVE
Cape Fear Steam Electric Plant	Cape Fear 1956 Ash Pond Dam	CHATH-075	INACTIVE
Cape Fear Steam Electric Plant	Cape Fear 1963 Ash Pond Dam	CHATH-076	INACTIVE
Cape Fear Steam Electric Plant	Cape Fear 1970 Ash Pond Dam	CHATH-077	INACTIVE
Cape Fear Steam Electric Plant	Cape Fear 1978 Ash Pond Dam	CHATH-078	INACTIVE

Cape Fear Steam Electric Plant	Cape Fear 1985 Ash Pond Dam	CHATH-079	ACTIVE
Cape Fear Steam Electric Plant	Cape Fear Flood Control Dam	CHATH-080	DECOMISSIONED
James E. Rogers Energy Complex (Cliffside Steam Station)	Cliffside River Dam	CLEVE-053	ACTIVE
James E. Rogers Energy Complex (Cliffside Steam Station)	Cliffside Inactive Ash Basin #5 Main Dam	RUTHE-070	INACTIVE
James E. Rogers Energy Complex (Cliffside Steam Station)	Cliffside Inactive Ash Basin #5 Saddle Dam	RUTHE-072	INACTIVE
James E. Rogers Energy Complex (Cliffside Steam Station)	Cliffside Active Ash Basin Upstream Dam	CLEVE-050	INACTIVE
James E. Rogers Energy Complex (Cliffside Steam Station)	Cliffside Active Ash Basin Downstream Dam	CLEVE-049	INACTIVE
James E. Rogers Energy Complex (Cliffside Steam Station)	Cliffside Retention Basin Dam (Formerly Inactive Ash Basin #1-4 Main Dam)	CLEVE-047	ACTIVE
James E. Rogers Energy Complex (Cliffside Steam Station)	Cliffside Active Ash Basin Internal Dam	CLEVE-054	INACTIVE
Dan River Combined Cycle Station	Dan River Active Primary Ash Basin Dam	ROCKI-237	DECOMISSIONED
Dan River Combined Cycle Station	Dan River Active Secondary Ash Basin Dam	ROCKI-238	DECOMISSIONED
Dan River Combined Cycle Station	Dan River Service Water Settling Pond Dam	ROCKI-241	ACTIVE
Dan River Combined Cycle Station	Dan River Low Head Diversion Dam	ROCKI-239	ACTIVE
H.F. Lee Energy Complex	H.F. Lee Cooling Lake Dam	WAYNE-009	ACTIVE
H.F. Lee Energy Complex	H.F. Lee Active Ash Basin Dam	WAYNE-022	INACTIVE
H.F. Lee Energy Complex	H.F. Lee Inactive Ash Basin 1 Dam	WAYNE-031	INACTIVE

H.F. Lee Complex	Energy	H.F. Lee Inactive Ash Basin 2 Dam	WAYNE-032	INACTIVE
H.F. Lee Complex	Energy	H.F. Lee Inactive Ash Basin 3 Dam	WAYNE-033	INACTIVE
H.F. Lee Complex	Energy	H.F. Lee Permanent Stormwater Pond Dam	WAYNE-036	ACTIVE
H.F. Lee Complex	Energy	H.F. Lee Triangular Pond Dam	WAYNE-034	DECOMISSIONED
Marshall Station	Steam	Marshall Active Ash Basin Dam	CATAW-054	INACTIVE
Marshall Station	Steam	Marshall Retention Basin Dam	CATAW-076	ACTIVE
Marshall Station	Steam	Marshall Holding Basin Dam	CATAW-075	ACTIVE
Marshall Station	Steam	Marshall West Temporary SWP	CATAW-077	ACTIVE
Marshall Station	Steam	Marshall East Temporary SWP	CATAW-078	DECOMISSIONED
Mayo Steam Plant	Electric	Mayo Lake Dam	PERSO-034	ACTIVE
Mayo Steam Plant	Electric	Mayo Active Ash Pond Dam	PERSO-035	INACTIVE
Mayo Steam Plant	Electric	Mayo FGD Settling Pond Dam	PERSO-036	DECOMISSIONED
Mayo Steam Plant	Electric	Mayo FGD Flush Pond Dam	PERSO-037	DECOMISSIONED
Mayo Steam Plant	Electric	Mayo Coal Pile Dam	PERSO-046	ACTIVE
Mayo Steam Plant	Electric	Mayo FGD Settling Basin Dam	PERSO-049	ACTIVE
Mayo Steam Plant	Electric	Mayo Retention Basin Dam	PERSO-050	ACTIVE
Riverbend Station	Steam	Riverbend Active Primary Ash Basin Dam	GASTO-097	DECOMISSIONED
Riverbend Station	Steam	Riverbend Active Secondary Ash Basin Dam	GASTO-098	DECOMISSIONED
Riverbend Station	Steam	Riverbend Intermediate Dam	GASTO-099	DECOMISSIONED
Riverbend Station	Steam	Riverbend Fuel Containment Dam	GASTO-105	DECOMISSIONED
Roxboro Electric Plant	Steam	Lake Hyco Dam	PERSO-002	ACTIVE
Roxboro Electric Plant	Steam	Roxboro Afterbay Dam Reservoir	PERSO-013	ACTIVE
Roxboro Electric Plant	Steam	Roxboro West Ash Basin Dam	PERSO-038	ACTIVE



Roxboro Electric Plant	Steam	Roxboro West Ash Basin Rock Filter Dam	PERSO-039	ACTIVE
Roxboro Electric Plant	Steam	Roxboro West FGD Settling Pond Dam	PERSO-040	DECOMISSIONED
Roxboro Electric Plant	Steam	Roxboro East FGD Settling Pond Dam	PERSO-041	DECOMISSIONED
Roxboro Electric Plant	Steam	Roxboro FGD Forward Flush Pond Dam	PERSO-042	DECOMISSIONED
Roxboro Electric Plant	Steam	Roxboro East Ash Basin Dam	PERSO-033	ACTIVE
Roxboro Electric Plant	Steam	Roxboro Intake Pond Dam	PERSO-043	ACTIVE
Roxboro Electric Plant	Steam	Roxboro Retention Basin Dam	PERSO-048	ACTIVE
Roxboro Electric Plant	Steam	Roxboro Holding Basin Dam	PERSO-047	ACTIVE
L. V. Sutton Energy Complex	Energy	Sutton 1984 Ash Basin Dam	NEWHA-005	DECOMISSIONED
L. V. Sutton Energy Complex	Energy	Sutton 1971 (1983) Ash Basin Dam	NEWHA-004	DECOMISSIONED
L. V. Sutton Energy Complex	Energy	Sutton 1972 Cooling Lake Dam	NEWHA-003	ACTIVE
W. H. Weatherspoon Power Plant	Power	Weatherspoon Cooling Lake Dam	ROBES-004	ACTIVE
W. H. Weatherspoon Power Plant	Power	Weatherspoon 1979 Ash Basin Dam	ROBES-009	ACTIVE