

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



***Coal Ash Quarterly Report***

**January 1, 2023**

**Division of Water Resources  
NORTH CAROLINA DEPARTMENT OF  
ENVIRONMENTAL QUALITY**

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

## Department of Environmental Quality Quarterly Report December 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
- NOV – Notice of Violation
- NPDES – National Pollution Discharge Elimination System
- OPGW – Overhead Power Guide Wire
- PTC – Permit to Construct
- PTO – Permit to Operate
- SOC – Special Order by Consent
- STAR – Staged Turbulent Air Reactor
- 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 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 for groundwater corrective action 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

- 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.
  - DEQ expects to submit the package to Duke in January 2023.

### Allen Steam Station

- Assessment and Corrective Action Status
  - May 18, 2022 – Duke 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.
    - June 17, 2022 – Duke submits revised “No Purge” Plan to DEQ.
      - November 17, 2022 – DWR approves the Plan.
  - 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
  - November 18, 2022 – Duke submits the groundwater CAP for the facility.
    - DWR is currently reviewing the CAP.
- Closure Status
  - Excavation of the 1964 Basin is complete
    - October 21, 2022 – DEQ approves the Visual Verification which establishes the 30-year compliance period for the basin. DEQ also confirms that Duke has met the requirements of CAMA for excavation.
    - September 2, 2022 – Duke submits Visual Verification Report for the basin.
  - Excavation of the 1982 Basin is complete.
- NPDES permit NC0000396
  - No update this quarter.

### Belews Creek Steam Station

- Assessment and Corrective Action Status
  - No update this quarter.
  - 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
  - No update this quarter.
- Closure Status
  - Closure is on-going.
- NPDES Permit NC0004774
  - No update this quarter.

#### Cape Fear Steam Electric Plant

- Assessment and Corrective Action Status
  - May 18, 2022 – Duke 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.
    - June 17, 2022 – Duke submits revised “No Purge” Plan to DEQ.
      - November 17, 2022 – DWR approves the Plan.
- Closure Status
  - Closure is on-going.
- NPDES permit NC0003433
  - No update this quarter.
- SOC S19-001
  - November 8, 2022 – A letter was sent granting condition approval of the seep management amendment to the groundwater corrective action plan. This approval started the 30-day clock for termination of the SOC. As a result, this SOC was terminated on December 8, 2022.

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

- Assessment and Corrective Action Status
  - September 26, 2022 – Duke submits corrective action monitoring plan for the Ash Storage Area.
    - DWR is currently reviewing the plan.
  - September 15, 2022 – Duke submits request to delay the submission of the CAP for the coal pile until February 2023.
    - September 15, 2022 – DWR approves the request.
  - Duke is continuing to implement the approved corrective actions.
- Closure Status

- 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 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.
    - June 17, 2022 – Duke submits revised “No Purge” Plan to DEQ.
      - November 17, 2022 – DWR approves the Plan.
  - Duke is continuing to implement the approved corrective actions.
- Closure Status
  - Excavation is complete.
- NPDES permit NC0003468
  - September 23, 2022 – Permit Renewal issued.

#### H. F. Lee Energy Complex

- Assessment and Corrective Action Status
  - November 4, 2022 – Duke submits the groundwater CAP for the facility
    - DWR is currently reviewing the CAP.
- Closure Status
  - Closure is on-going.
- NPDES permit NC0003417
  - October 21, 2022 – Permit Modification issued.
- SOC S18–006
  - November 8, 2022 – A letter was sent granting condition approval of H.F. Lee’s closure plan. This approval started the 30-day clock for termination of the SOC. As a result, this SOC was terminated on December 8, 2022.

#### Marshall Steam Station

- Assessment and Corrective Action Status
  - No update this quarter.
  - Duke is continuing to implement the approved corrective actions.
- Closure Status
  - Closure is on-going.
- NPDES permit NC0004987
  - No update this quarter.



### Mayo Steam Electric Plant

- Assessment and Corrective Action Status
  - September 30, 2022 – Duke submits a CAP addendum for the coal pile and gypsum pad.
    - DWR is currently reviewing the CAP addendum.
  - Duke is continuing to implement the approved corrective actions.
- Closure Status
  - Closure is on-going.
- NPDES permit NC0038377
  - No update this quarter.

### Riverbend Steam Station

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

### Roxboro Steam Electric Plant

- Assessment and Corrective Action Status
  - November 1, 2022 – Duke submits a CAP addendum for the coal pile.
    - DWR is currently reviewing the CAP addendum.
  - 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.
    - April 4, 2022 – DEQ sends comments to Duke.
      - September 7, 2022 – Duke submits comments back to DEQ.
      - September 8, 2022 – DEQ approves the response and provides some additional requirements.
  - Closure is on-going.
- NPDES permit NC0003425
  - No update this quarter.

### L. V. Sutton Energy Complex

- Assessment and Corrective Action Status
  - No update this quarter.
  - Duke is continuing to implement the approved corrective actions.
- Closure Status
  - Excavation of the 1971 Basin is complete.

- Excavation of the 1984 Basin is complete.
- NPDES permit NC0001422
  - November 7, 2022 – Permit Renewal Draft initiated.

#### 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
  - November 8, 2022 – A letter was sent granting condition approval of the seep management amendment to the groundwater corrective action plan. This approval started the 30-day clock for termination of the SOC. As a result, this SOC will terminate on December 8, 2022.

#### **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
  - Updated 2023 plan scheduled to be submitted December 2022
- Site Visits
  - November 9, 2022 – Annual site inspection.
  - October 26, 2022 – Annual virtual records review prior to inspection.
- 3612-INDUS-2008: Retired Ash Basin Landfill (open, double-lined, landfill constructed on top of retired ash basin).
  - Continued semi-annual detection monitoring
- 3619-INDUS-2021: North Starter Landfill
  - Construction ongoing for landfill.
- 3620-INDUS-2022: South Starter Landfill
  - Construction ongoing for landfill.
- 3621-INDUS-20XX: Basin Landfill
  - No update this quarter.

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

- Site Visits
  - Annual inspection scheduled for summer 2023
- 1119-INDUS-2020 (closed, double lined)
  - Closure turf final cover underway, scheduled to be complete spring 2023.
  - Continued semi-annual detection monitoring.

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

- Excavation Plan
  - Updated 2023 plan scheduled to be submitted December 2022.
- Site Visits
  - November 17, 2022 – Annual site inspection.
  - November 3, 2022 – Annual virtual records review prior to inspection.
- 8503-INDUS-1984: Pine Hall Road Landfill (closed, unlined – composite cap system)
  - Continued semi-annual detection monitoring.
  - Groundwater Assessment
    - No update this quarter.
- 8504-INDUS-2007: Craig Road Landfill (open, lined)
  - Continued semi-annual detection monitoring.
  - Groundwater Assessment
    - No update this quarter.
- 8505-INDUS-2008: Flue Gas Desulfurization (FGD) Landfill (open, lined)
  - Continued semi-annual detection monitoring.
  - Groundwater Assessment.
    - No update this quarter.

- 8506-INDUS-2021: Basin Landfill
  - Construction ongoing in Cells 1 and 2.

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

- Site Visits
  - November 17, 2022 – Annual site inspection.
  - November 7, 2022 – Annual virtual records review prior to inspection.
- 7906-INDUS-2016: CCR Landfill (closed, lined)
  - Continued semi-annual detection monitoring.

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

- Excavation Plan
  - Updated 2023 plan scheduled to be submitted December 2022.
- Site Visits
  - December 6, 2022 – Annual site inspection.
  - October 4, 2022 – Annual virtual records review prior to inspection.
- 7305-INDUS-2012: CCR Landfill (open, double lined)
  - Continued semi-annual detection monitoring.
  - Groundwater Assessment
    - No update this quarter.
- 7307-INDUS-2021: Basin Landfill
  - Construction ongoing for landfill.

Marshall Steam Station – Catawba County (current coal fired)

- Excavation Plan
  - December 20, 2022 – Received plan.
- Stability Features
  - DWM expects an update on design to be submitted by the end of December 2022.
- Site Visits
  - October 25, 2022 – EPA Region IV site visit with DEQ.
- 1804-INDUS-1983: Dry Ash Landfill (closed, unlined – Phase 2 composite cap system)
  - December 2022 – Anticipated submittal of closure cap design.
  - Continued semi-annual detection monitoring.
  - Groundwater Assessment
    - No update this quarter.
- 1809-INDUS: FGD Landfill (closed, lined)
  - Continued semi-annual detection monitoring.
  - Groundwater Assessment
    - No update this quarter.
- 1812-INDUS-2008: Industrial Landfill #1 (open, double-lined)
  - December 2022 – Anticipated issuance of Permit to Operate Phase 2, Cell 5.
  - Leachate basin construction underway.
  - Continued operation of landfill – Phase 1, Cells 1 - 4.
  - Continued semi-annual detection monitoring.

Rogers Energy Complex – Rutherford County (current coal fired)

- Excavation Plan
  - Updated 2023 plan scheduled to be submitted December 2022.
- Site Visits
  - November 9, 2022 – Annual site inspection.
  - November 2, 2022 – Annual virtual records review prior to inspection.
- 8106–INDUS–2009: CCR Landfill (open, lined)
  - Continued operation of Phases 3 and 4.
  - Continued semi-annual detection monitoring.

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

- Excavation Plan
  - Updated 2023 plan scheduled to be submitted December 2022.
- Site Visits
  - December 6, 2022 – Annual site inspection.
  - October 3, 2022 - Annual virtual records review prior to inspection.
- Stability Feature
  - Construction of east and west DMM wall ongoing.
- 7302–INDUS–2021: Proposed new onsite landfill expansion (double lined, partially on top of excavated ash basin)
  - Construction ongoing for Phases 7-11.
  - Continued semi-annual detection monitoring.

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

- Site Visits
  - Annual inspection scheduled for spring 2023.
- 6512–INDUS–2016: CCR Landfill (closed, double lined)
  - Continued semi-annual detection monitoring.

**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)
  - Continued semi-annual detection monitoring.

**Duke Energy Facilities Without Landfills**

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

- Excavation Plan
  - Updated 2023 plan scheduled to be submitted December 2022.
- Site Visits

- October 25, 2022 – EPA Region IV site visit with DEQ.
- Continued operation of STAR plant.

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

- Excavation Plan
  - Updated 2023 plan scheduled to be submitted December 2022.
- Continued operation of STAR plant.

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

- Excavation Plan
  - Updated 2023 plan scheduled to be submitted December 2022.
- 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
  - Updated 2023 plan scheduled to be submitted December 2022.
- 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

- Continued semi-annual detection monitoring.

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

- December 2022 – Scheduled annual site inspection.
- Continued semi-annual detection monitoring.

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

- October 27, 2022 – approval of revised Water Quality Monitoring Plan, Rev 2.
- Continued semi-annual detection monitoring.

## **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
  - September 28<sup>th</sup>, 2022 – Conducted annual inspections (GASTO-016, GASTO-061, GASTO-324)
- Erosion and Sediment Control and Construction Storm Water
  - No update this quarter.
- NPDES Storm Water
  - No update this quarter.

### **Asheville Steam Electric Plant**

- Dam Safety
  - BUNCO-097 (1964 Ash Basin Dam).
    - 10/25/22 – Issued Jurisdictional Determination and Hazard Classification as non-CCR, Large sized, High hazard dam.
    - 10/19/22 – Received request for Jurisdictional Determination and Hazard Classification.
  - 10/05/22 – Conducted annual inspections (BUNCO-088, BUNCO-097)
- Erosion and Sediment Control and Construction Storm Water
  - No update this quarter.
- NPDES Storm Water
  - NCS000575
    - 6/27/22 – Permit renewal drafting initiated; Public notice pending review of stormwater benchmarks.

### **Belews Creek Steam Station**

- Dam Safety
  - STOKE-121 (Belews Creek Retention Basin Dam).
    - 11/9/22 – Issued Certificate of Final Approval to Modify the dam by relocation of Emergency Spillway, Scope 2.
    - 10/20/22 – Conducted As-built Inspection of Scope 2 Modification – Relocation of Emergency Spillway.
    - 09/21/22 – Received request for Final Approval to Modify the dam by relocation of Emergency Spillway, Scope 2.
  - ROCKI-236 (Belews Creek Lake Main Dam).



- 11/1/22 – Issued Certificate of Approval to Install Instrumentation.
    - 10/19/22 – Received request to Install Instrumentation.
  - STOKE-116 (Belews Creek Active Ash Basin Dam).
    - 10/20/22 – Conducted As-built Inspection of Scope 10 Pine Hall Road Embankment Dam Modification.
  - 11/16/22 – Issued NOIs for ROCKI-235, ROCKI-236, STOKE-117, STOKE-118, STOKE-119.
  - 10/20/22 – Conducted annual inspections (ROCKI-235, ROCKI-236, STOKE-117, STOKE-118, STOKE-119).
- Erosion and Sediment Control and Construction Storm Water
  - STOKE-2023-003
    - 9/6/22 –Duke Energy Rural Hall Tie to Belews Creek (Rural Hall) OPGW issued.
  - STOKE-2023-002
    - 9/19/22 –Belews Creek North Area Extraction Well Grading Plan issued.
  - STOKE-2023-006
    - 10/13/22 – Belews Creek West Borrow Area issued.
- NPDES Storm Water
  - NCS000573
    - 10/13/22 – Compliance inspection.
    - 8/17/22 – Permit renewal drafting initiated; Draft permit submitted to internal peer review.

### **Buck Combined Cycle Station**

- 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.

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

- Dam Safety
  - CHATH-075 (Cape Fear 1956 Ash Basin Dam)
    - 10/27/22 – Issued Approval Letter to repair, Scope 3 – Extension 6.
    - 10/17/22 – Received request to extend Scope 3 Repair.
  - CHATH-076 (Cape Fear 1963 Ash Basin Dam)
    - 10/27/22 – Issued Approval Letter to repair, Scope 2 – Extension 6.
    - 10/17/22 – Received request to extend Scope 2 Repair.
  - CHATH-077 (Cape Fear 1970 Ash Basin Dam)
    - 10/27/22 – Issued Approval Letter to repair, Scope 2 – Extension 6.
    - 10/17/22 – Received request to extend Scope 2 Repair.
- Erosion and Sediment Control and Construction Storm Water

- No update this quarter.
- NPDES Storm Water
  - NCS000574
    - 4/18/22 – Permit renewal drafting initiated; Internal peer review pending inspection.

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

- Dam Safety
  - 10/6/22 – Conducted annual inspections (CLEVE-047, CLEVE-049, CLEVE-050, RUTHE-070, RUTHE-072).
- Erosion and Sediment Control and Construction Storm Water
  - No update this quarter.
- NPDES Storm Water
  - No update this quarter

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

- Dam Safety
  - No update this quarter.
- Erosion and Sediment Control and Construction Storm Water
  - No update this quarter.
- NPDES Storm Water
  - NCS000572
    - 11/1/22 – Permit effective date.

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

- Dam Safety
  - WAYNE-022 (HF Lee Active Ash Basin)
    - 10/31/22 – Issued Approval Letter to Extend Scope 3 Addendum 2 Repair, Extension 6.
    - 10/21/22 – Received request to Extend Scope 3 Addendum 2 Repair, Extension 6
  - WAYNE-033 (HF Lee Inactive Ash Basin Dam #3)
    - 10/18/22 – Issued Certificate of Final Approval for Scope 6 Repair – Access Ramp Construction.
    - 10/13/22 – Conducted As-built Inspection of Scope 6 Repair – Access Ramp Construction.
    - 10/03/22 – Received request for Final Approval for Scope 6 Repair – Access Ramp Construction.
  - WAYNE-032 (HF Lee Inactive Ash Basin Dam #2)
    - 09/30/22 – Issued Certificate of Approval to Modify for truck access ramp on dam downstream slope
    - 09/22/22 – Received plans to Modify for truck access ramp on dam downstream slope.

- Erosion and Sediment Control and Construction Storm Water
  - WAYNE-2023-009
    - 9/16/22 – HF Lee Blackjack Church Road Stockpile E&SC Plan (EXPRESS)
  - WAYNE-2023-008
    - 9/16/22: HF Lee HFL-162 Cooling Pond Seep Repair
- NPDES Storm Water
  - No update this quarter.

### **Marshall Steam Station**

- Dam Safety
  - 10/12/22 – Conducted annual inspections (CATAW-054, CATAW-075, CATAW-076).
- Erosion and Sediment Control and Construction Storm Water
  - No update this quarter.
- NPDES Storm Water
  - No update this quarter.

### **Mayo Steam Electric Plant**

- Dam Safety
  - PERSO-013 (Roxboro Afterbay Dam)
    - 11/7/22 – Issued Revision Request to Modify for Rehabilitation of the Principal Spillway.
    - 10/3/22 – Received plans to Modify for Rehabilitation of the Principal Spillway.
- Erosion and Sediment Control and Construction Storm Water
  - No update this quarter.
- NPDES Storm Water
  - NCS000580
    - 8/5/22 – Permit drafting initiated; Internal peer review pending inspection.

### **Riverbend Steam Station**

- 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.

### **Roxboro Steam Electric Plant**

- Dam Safety
  - No update this quarter.
- Erosion and Sediment
  - No update this quarter.
- NPDES Storm Water
  - 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
  - NCS00058
    - 7/6/22 – Permit drafting initiated; Internal peer review pending inspection.

### **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
  - 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
  - No update this quarter.

### **W. H. Weatherspoon Power Plant**

- Dam Safety
  - ROBES-004 (Weatherspoon Cooling Pond Dam)
    - 11/8/22 – Received revised response to NOD.
    - 9/7/22 – Issued comments on response to NOD.

- Erosion and Sediment Control and Construction Storm Water
  - No update this quarter.
- NPDES Storm Water
  - NCS000589
    - 9/19/22 – Permit renewal drafting initiated; Draft permit submitted to internal peer review.

**Dam Status**

<b>Plant Name</b>	<b>NAME</b>	<b>NC STATE-ID</b>	<b>DAM STATUS</b>
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 Station)	Cliffside Inactive Ash Basin #5 Saddle Dam	RUTHE-072	INACTIVE
James E. Rogers Energy Complex (Cliffside Station)	Cliffside Active Ash Basin Upstream Dam	CLEVE-050	INACTIVE
James E. Rogers Energy Complex (Cliffside Station)	Cliffside Active Ash Basin Downstream Dam	CLEVE-049	INACTIVE
James E. Rogers Energy Complex (Cliffside Station)	Cliffside Retention Basin Dam (Formerly Inactive Ash Basin #1-4 Main Dam)	CLEVE-047	ACTIVE
James E. Rogers Energy Complex (Cliffside 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 Energy Complex	H.F. Lee Inactive Ash Basin 2 Dam	WAYNE-032	INACTIVE
H.F. Lee Energy Complex	H.F. Lee Inactive Ash Basin 3 Dam	WAYNE-033	INACTIVE
H.F. Lee Energy Complex	H.F. Lee Permanent Stormwater Pond Dam	WAYNE-036	ACTIVE
H.F. Lee Energy Complex	H.F. Lee Triangular Pond Dam	WAYNE-034	DECOMISSIONED
Marshall Station	Marshall Active Ash Basin Dam	CATAW-054	INACTIVE
Marshall Station	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 Electric Plant		Mayo Lake Dam	PERSO-034	ACTIVE
Mayo Steam Electric Plant		Mayo Active Ash Pond Dam	PERSO-035	INACTIVE
Mayo Steam Electric Plant		Mayo FGD Settling Pond Dam	PERSO-036	DECOMISSIONED
Mayo Steam Electric Plant		Mayo FGD Flush Pond Dam	PERSO-037	DECOMISSIONED
Mayo Steam Electric Plant		Mayo Coal Pile Dam	PERSO-046	ACTIVE
Mayo Steam Electric Plant		Mayo FGD Settling Basin Dam	PERSO-049	ACTIVE
Mayo Steam Electric Plant		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 Steam Electric Plant	Roxboro Retention Basin Dam	PERSO-048	ACTIVE
Roxboro Steam Electric Plant	Roxboro Holding Basin Dam	PERSO-047	ACTIVE
L. V. Sutton Energy Complex	Sutton 1984 Ash Basin Dam	NEWHA-005	DECOMISSIONED
L. V. Sutton Energy Complex	Sutton 1971 (1983) Ash Basin Dam	NEWHA-004	DECOMISSIONED
L. V. Sutton Energy Complex	Sutton 1972 Cooling Lake Dam	NEWHA-003	ACTIVE
W. H. Weatherspoon Power Plant	Weatherspoon Cooling Lake Dam	ROBES-004	ACTIVE
W. H. Weatherspoon Power Plant	Weatherspoon 1979 Ash Basin Dam	ROBES-009	ACTIVE