

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



Coal Ash Quarterly Report

July 1, 2024

Division of Water Resources

**NORTH CAROLINA DEPARTMENT OF
ENVIRONMENTAL QUALITY**

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

Department of Environmental Quality Quarterly Report July 1, 2024

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 DEQ’s 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.

Beginning Quarter 2 of 2024, DEQ has incorporated a new section in this report that provides a table on the progress of the excavations at the various Duke Energy facilities. This section is called “Progress Toward Excavation and can be found at the end of this report. The information in this section is provided by Duke Energy.

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
- EMP – Effectiveness Monitoring Plan
- 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
- 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* (02L).

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 for groundwater corrective action are included in the Updated CAPs.

Session Law 2023-138 - Senate Bill 678

On October 10, 2023, Session Law 2023-138 (Senate Bill 678) was enacted. Section 3.(b) was added to CAMA and stated that the following coal combustion residuals surface impoundments shall be closed as soon as practicable but not later than the dates listed below, except as otherwise preempted by the requirements of federal law, and notwithstanding any applicable deadlines established in State law, including (i) G.S. 130A-309.214, as amended by subsection (a) of this

section, (ii) G.S. 130A-309.216, and (iii) S.L. 2014-122 and S.L. 2016-95. The legislation also states that the Environmental Management Commission may adopt permanent rules governing permitting for closure and post-closure of coal combustion residuals surface impoundments and landfills.

- H.F. Lee Energy Complex – December 31, 2035
- Cape Fear Steam Electric Plant – December 31, 2035
- Allen Steam Station – December 31, 2038
- Belews Creek Steam Station – December 31, 2034
- Buck Combined Cycle Station – December 31, 2035
- James E. Rogers Energy Complex (formerly Cliffside Steam Station) – December 31, 2029
- Marshall Steam Station – December 31, 2035
- Mayo Steam Electric Plant – December 31, 2029
- Roxboro Steam Electric Plant – December 31, 2036

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

- March 24, 2023 – Duke submits request to discontinue sampling of hexavalent chromium at all facilities.
 - DEQ is currently in contact with Duke Energy and is reviewing and assessing the request.

Allen 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 NC0004979
 - No update this quarter.

Asheville Steam Electric Plant

- Assessment and Corrective Action Status
 - May 6, 2024 – Duke submits pumping test work plan for Former Coal Pile Area.
 - May 16, 2024 – DEQ approves the work plan.
 - Duke is continuing to implement the approved corrective actions.
- Closure Status
 - Excavation 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
 - April 23, 2024 - Received proposed EMP for facility.
 - May 28, 2024 – DEQ approves EMP.
 - Duke is continuing to implement the approved corrective actions.
- Closure Status
 - Closure is on-going.
- NPDES Permit NC0004774
 - No update this quarter.

Cape Fear Steam Electric Plant

- Assessment and Corrective Action Status
 - March 28, 2024 – Received draft EMP for facility.
 - DEQ is currently reviewing the EMP.
 - Duke is continuing to implement the approved corrective actions.
- Closure Status
 - Closure is on-going.
- NPDES permit NC0003433
 - No update this quarter.

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

- Assessment and Corrective Action Status
 - No update this quarter.
 - Duke is continuing to implement the approved corrective actions for the impoundments.
- Closure Status
 - Closure is on-going.
 - Excavation of the Inactive Units 1–4 is complete.
 - Excavation of the Inactive Unit 5 is complete.
- NPDES permit NC0005088
 - No update this quarter.

Dan River Combined Cycle 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 NC0003468
 - No update this quarter.

H. F. Lee Energy Complex

- Assessment and Corrective Action Status
 - November 17, 2023 – Received proposed EMP for facility.
 - February 28, 2024 – DEQ approves the EMP.
 - Duke is continuing to implement the approved corrective actions.
- Closure Status
 - Closure is on-going.
- NPDES permit NC0003417
 - No update this quarter.

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
 - No update this quarter.
 - 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
 - No update this quarter.
 - Duke is continuing to implement the approved corrective actions.
 - Closure Status
 - April 17, 2024 – Duke submits revised excavation plan for the Eastern Extension Impoundment
 - May 24, 2024 – DEQ approves revised plan.
 - Closure is on-going.
- NPDES permit NC0003425
- No update this quarter.

L. V. Sutton Energy Complex

- Assessment and Corrective Action Status
 - November 17, 2023 – Received proposed EMP for facility.
 - April 11, 2024 – DEQ approves the EMP.
 - Duke is continuing to implement the approved corrective actions.
- Closure Status
 - Excavation is complete.
- NPDES permit NC0001422
 - No update this quarter.

W. H. Weatherspoon Power Plant

- Assessment and Corrective Action Status
 - April 1, 2024 – Duke submits revised CAP for the former coal pile area.
 - DEQ is currently reviewing the CAP
 - April 5, 2024 – Received proposed EMP for facility.
 - DEQ is currently reviewing the EMP.
- Closure Status
 - Closure is on-going.
- NPDES permit NC0005363
 - No update 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.

- On January 8, 2023, Duke Energy requested to combine the CAMA Annual Groundwater Protection and Restoration Report with CAMA Annual Surface Water Protection and Restoration Report into a single report starting in 2024 (for the calendar year 2023) and going forward. On January 9, 2023, DEQ approved this request so long as the combined report adheres to the requirements of CAMA General Statutes 130A-309.211(d) and 130A-309.212(e) and is submitted no later than January 31 of each 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.

- On January 8, 2023, Duke Energy requested to combine the CAMA Annual Groundwater Protection and Restoration Report with CAMA Annual Surface Water Protection and Restoration Report into a single report starting in 2024 (for the calendar year 2023) and going forward. On January 9, 2023, DEQ approved this request so long as the combined report adheres to the requirements of CAMA General Statutes 130A-309.211(d) and 130A-309.212(e) and is submitted no later than January 31 of each year.

DIVISION OF WASTE MANAGEMENT

Landfills At Duke Energy Coal Ash Facilities

Allen Steam Station – Gaston County (current coal fired)

- Excavation Plan
 - No updates this quarter
- Site Visits
 - No updates this quarter.
- Closure Plan
 - No updates this quarter.
- 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
 - Continued operations.
- 3620-INDUS-2022: South Starter Landfill
 - Construction ongoing for landfill.
- 3621-INDUS-20XX: Basin Landfill
 - No updates this quarter.
- Canal Road Landfill (permit # TBD)
 - No updates this quarter.

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

- Site Visits
 - May 29, 2024 – Annual site inspection scheduled.
- 1119-INDUS-2020 (closed, double lined)
 - Continued semi-annual detection monitoring.

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

- Excavation Plan
 - No updates this quarter.
- Site Visits
 - No update this quarter.
- 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: FGD Landfill (open, lined)
 - Landfill currently being excavated for FGD product and sold to local wallboard manufacturers.
 - Continued semi-annual detection monitoring.

- Groundwater Assessment.
 - No update this quarter.
- 8506-INDUS-2021: Basin Landfill
 - Continued operation in Cells 1 and 2.

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

- Site Visits
 - December 5, 2023 – Annual site inspection scheduled.
- 7906-INDUS-2016: CCR Landfill (closed, lined)
 - Continued semi-annual detection monitoring.

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

- Excavation Plan
 - No update this quarter.
- Site Visits
 - No update this quarter.
- 7305-INDUS-2012: CCR Landfill (open, double lined)
 - April 30, 2024 – DEQ issued approval of Closure/Post Closure Plan.
 - April 25, 2024 – Duke submitted Closure/Post Closure Plan.
 - March 8, 2024 – Duke submitted notice of intent to close.
 - Continued semi-annual detection monitoring.
 - Groundwater Assessment
 - No update this quarter.
- 7307-INDUS-2021: Basin Landfill
 - Continued operations in Phase 1.
 - Construction ongoing for Phase 2.

Marshall Steam Station – Catawba County (current coal fired)

- Excavation Plan
 - February 21, 2024 - Approval letter issued.
 - December 15, 2023 - Annual Excavation Plan submitted by Duke.
- Site Visits
 - April 23, 2024 – Annual site inspection, no issues.
- Stability Features
 - Construction ongoing.
- Structural Fill (CCB0031)
 - Installation of final cover system/closure cap scheduled to be complete in 2024.
- 1804-INDUS-1983: Dry Ash Landfill (closed, unlined – Phase 2 composite cap system)
 - Installation of final cover/closure system schedule to be complete in 2024.
 - 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)
 - Leachate basin is in operation.
 - Continued operation of landfill – Phase 1, Cells 1-4 (excavated basin ash and production ash).
 - Continued semi-annual detection monitoring.
 - Construction ongoing of Phase 2, Cell 6.

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)
 - Continued operation of Phases 3 and 4 (excavated basin ash and production ash).
 - Continued semi-annual detection monitoring.

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

- Excavation Plan
 - No update this quarter.
- Site Visits
 - No update this quarter.
- Stability Feature
 - No update this quarter.
- 7302-INDUS-1988: CCR Landfill (open, lined)
 - Continued operation of landfill – Phase 6 (production ash).
 - Continued semi-annual detection monitoring (leachate only).
- 7302–INDUS–2021: Proposed new onsite landfill expansion (double lined, partially on top of excavated ash basin)
 - May 13, 2024 – First waste placement.
 - May 3, 2024 – DEQ issued Approval to Operate Phase 8.
 - Active operation in Phase 7.
 - Construction ongoing for Phases 8-11.

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

- Site Visits
 - May 22, 2024 – annual site inspection, no issues.
- 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
 - 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

- Continued semi-annual detection monitoring.

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

- Continued quarterly detection monitoring per Dec 14, 2020, Consent Order.

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)

- December 27, 2023 – Corrective Action Plan submitted by Duke.
 - April 30, 2024 – DEQ issued approval of Corrective Action Plan.

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

- 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
 - GASTO-324
 - No update this quarter.
- 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-088 and BUNCO-097
 - No update this quarter.
 - BUNCO-088
 - No update this quarter.
- Erosion and Sediment Control and Construction Storm Water
 - BUNCO-2020-010
 - No update this quarter.
 - BUNCO-2018-001
 - No update this quarter.
- NPDES Storm Water
 - No update this quarter.

Belews Creek Steam Station

- Dam Safety
 - No update this quarter.
- Erosion and Sediment Control and Construction Storm Water
 - STOKE-2024-0105 (Belews Creek South Borrow Area)
 - 5/14/2024 – An approval with Modifications was issued.
 - STOKE-2024-002 (Belews Creek Meteorological Tower) and STOKE-2021-004 (Future Landfill Timbering Operations)
 - 4/16/2024 – Inspections conducted for E&SC Plan.
 - STOKE-2024-0102 (Belews Creek Geotechnical Borings)
 - 2/21/2024 – An approval with Modifications was issued.

- NPDES Storm Water
 - NCS000573
 - No update this quarter.

Buck Combined Cycle Station

- Dam Safety
 - ROWAN-047 and ROWAN-071
 - No update this quarter.
 - ROWAN-047, ROWAN-068, ROWAN-069, ROWAN-070, ROWAN-071 and ROWAN-079
 - No update this quarter.
- Erosion and Sediment Control and Construction Storm Water
 - ROWAN-2024-0101
 - 3/8/24 – Received PA-004028, Erosion and Sediment Control Plan for Buck Main and Additional Soil Stockpile.
 - 3/28/24 – Approved PA-004028, Buck Main and Additional Soil Stockpile.
- NPDES Storm Water
 - 3/28/24 – Buck Steam and Combined Cycle Stations were inspected for industrial stormwater compliance.

Cape Fear Steam Electric Plant

- Dam Safety
 - CHATH-076
 - 5/28/2024 – Received Revised Plans to Modify the dam, Scope 3.
 - 3/4/24 – Issued Revision Request Letter to Modify the dam, Scope 3.
 - CHATH-077
 - 5/28/2024 – Received Revised Plans to Modify the dam, Scope 4.
 - 3/4/24 – Issued Revision Request Letter to Modify the dam, Scope 4.
 - CHATH-078
 - 5/28/2024 – Received Revised Plans to Modify the dam, Scope 5.
 - 3/4/24 – Issued Revision Request Letter to Modify the dam, Scope 5.
 - CHATH-076, CHATH-077, CHATH-078 and CHATH-079
 - 5/1/24 – Conducted Annual Dam Safety Inspections.
- Erosion and Sediment Control and Construction Storm Water
 - No update this quarter.
- NPDES Storm Water
 - No update this quarter.

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

- Dam Safety
 - RUTHE-070
 - 4/9/24 – Issued Jurisdictional Determination and Hazard Classification following complete removal of CCR material.

- 3/25/24 – Received Jurisdictional Determination and Hazard Classification request following complete removal of CCR material.
- Erosion and Sediment Control and Construction Storm Water
 - CLEVE-2023-037
 - 3/7/24 – ES&C Inspection conducted for Stormwater Channel for former Ash Storage Area.
- 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
 - No update this quarter.

H.F. Lee Energy Complex

- Dam Safety
 - WAYNE-032
 - 4/11/24 – Issued Certificate of Final Approval for Construction to modify the dam.
 - 4/2/24 – Conducted As-Built inspection for Construction to modify the dam, Scope 8, Addendum 1.
 - 3/12/24 – Received request for Final Approval of Construction to modify the dam, Scope 8, Addendum 1.
- Erosion and Sediment Control and Construction Storm Water
 - No update this quarter.
- NPDES Storm Water
 - 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
 - No update this quarter.

Mayo Steam Electric Plant

- Dam Safety
 - PERSO-034, PERSO-035, PERSO-049, and PERSO-050
 - 5/8/24 – Issued NOIs following Annual Dam Safety Inspections on 4/16/24.

- 4/16/24 – Conducted Annual Dam Safety Inspections.
- Erosion and Sediment Control and Construction Storm Water
 - No update this quarter.
- NPDES Storm Water
 - 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
 - No update this quarter.

Roxboro Steam Electric Plant

- Dam Safety
 - PERSO-002, PERSO-013, PERSO-033, PERSO-038, PERSO-039, PERSO-047, and PERSO-049.
 - 5/8/24 – Issued NOIs following Annual Dam Safety Inspections on 4/17/24.
 - 4/17/24 – Conducted Annual Dam Safety Inspections
 - PERSO-033
 - 4/12/24 – Certificate of Approval for Change of EOR.
 - 4/11/24 – Received request for Change of EOR.
- 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
 - 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
 - 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-009
 - 3/6/24 – Issued Certificate of Final Approval for Construction, Scope 10 (principal spillway abandonment).
 - ROBES-004 and ROBES-009
 - 5/9/24 – Conducted Annual Dam Safety Inspections.
- Erosion and Sediment Control and Construction Storm Water
 - No update this quarter.
- NPDES Storm Water
 - 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	INACTIVE
Asheville Steam Electric Plant	North Stormwater Pond Dam	BUNCO-504	ACTIVE
Asheville Steam Electric Plant	South Stormwater Pond Dam	BUNCO-505	ACTIVE
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	INACTIVE
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	INACTIVE
Belews Creek Steam Station	Belews Creek North Coal Pile Dam	STOKE-122	INACTIVE
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	INACTIVE
Buck Combined Cycle Station	Buck Beneficial Ash Dry Pond	ROWAN-075	INACTIVE
Buck Combined Cycle Station	Buck Retention Basin Dam	ROWAN-079	ACTIVE
Cape Fear Steam Electric Plant	Buckhorn Lake Dam	CHATH-022	INACTIVE
Cape Fear Steam Electric Plant	Cape Fear 1956 Ash Pond Dam	CHATH-075	DECOMISSIONED
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 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	DECOMISSIONED
H.F. Lee Energy Complex	H.F. Lee Triangular Pond Dam	WAYNE-034	DECOMISSIONED
Marshall Steam Station	Marshall Active Ash Basin Dam	CATAW-054	INACTIVE
Marshall Steam Station	Marshall Retention Basin Dam	CATAW-076	INACTIVE
Marshall Steam Station	Marshall Holding Basin Dam	CATAW-075	ACTIVE
Marshall Steam Station	Marshall West Temporary SWP	CATAW-077	INACTIVE
Marshall Steam Station	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 Steam Station	Riverbend Active Primary Ash Basin Dam	GASTO-097	DECOMISSIONED
Riverbend Steam Station	Riverbend Active Secondary Ash Basin Dam	GASTO-098	DECOMISSIONED
Riverbend Steam Station	Riverbend Intermediate Dam	GASTO-099	DECOMISSIONED
Riverbend Steam Station	Riverbend Fuel Containment Dam	GASTO-105	DECOMISSIONED
Roxboro Steam Electric Plant	Lake Hyco Dam	PERSO-002	ACTIVE
Roxboro Steam Electric Plant	Roxboro Afterbay Dam Reservoir	PERSO-013	ACTIVE
Roxboro Steam Electric Plant	Roxboro West Ash Basin Dam	PERSO-038	ACTIVE

Roxboro Steam Electric Plant	Roxboro West Ash Basin Rock Filter Dam	PERSO-039	ACTIVE
Roxboro Steam Electric Plant	Roxboro West FGD Settling Pond Dam	PERSO-040	DECOMISSIONED
Roxboro Steam Electric Plant	Roxboro East FGD Settling Pond Dam	PERSO-041	DECOMISSIONED
Roxboro Steam Electric Plant	Roxboro FGD Forward Flush Pond Dam	PERSO-042	DECOMISSIONED
Roxboro Steam Electric Plant	Roxboro East Ash Basin Dam	PERSO-033	ACTIVE
Roxboro Steam Electric Plant	Roxboro Intake Pond Dam	PERSO-043	INACTIVE
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

PROGRESS TOWARD EXAVATION

Data provided by Duke Energy

Current as of April 30, 2024

Site	Facility Type	Facility	Initial Inventory (tons)	Excavated to Date (tons)	Percent Complete	Comments
Allen Steam Station	Basin	Active Ash Basin	10,439,528	497,567	4.8%	
	Fill	Ash Fill 1	428,400	-	0.0%	
	Fill	Ash Fill 2	562,800	-	0.0%	
	Landfill	Retired Ash Basin Landfill	1,183,200	-	0.0%	
	Basin	Retired Ash Basin	6,152,310	-	0.0%	
	Fill	Subgrade for Landfill	600,000	-	0.0%	Structural ash fill underneath landfill
Asheville Steam Electric Plant	Basin	1964 Basin	3,095,800	3,095,800	100.0%	COMPLETE
	Basin	1982 Basin	5,196,453	5,196,453	100.0%	COMPLETE
Belews Creek Steam Station	Basin	Active Ash Basin	11,831,165	1,884,334	15.9%	
Buck Combined Cycle Station	Basin	Ash Basin 1	3,280,000	1,549,745	47.2%	Ash sent to the STAR Unit (Includes ash sent to Roanoke and screener reject sent to offsite landfill)
	Basin	Ash Basin 2	2,047,360	661,416	32.3%	Sent to Ash Basin 1 for blending and screening
	Basin	Ash Basin 3	719,000	26,381	3.7%	Basin 3 excavation began 2/26/2024
Cape Fear Steam Electric Plant	Basin	1956 Pond	340,600	340,600	100.0%	
	Basin	1963 Pond	837,354	394,937	47.2%	Ash sent to the 1985 Basin for processing.
	Basin	1970 Pond	864,736	298,450	34.5%	Ash sent to the 1985 Basin for processing.
	Basin	1978 Pond	767,056	-	0.0%	
	Basin	1985 Pond	2,837,860	1,392,075	49.1%	Ash sent to the STAR Unit (includes count of ash sent from 1956, 63, and 70 Ponds) and screener reject and pyrites sent to offsite landfill
James E. Rogers Energy Complex (formerly Cliffside Steam Station)	Basin	Active Ash Basin	4,957,200	2,045,834	41.3%	
	Fill	Ash Storage Area	439,181	439,181	100.0%	COMPLETE
	Basin	Inactive Ash Basin	2,119,512	2,119,512	100.0%	COMPLETE
	Basin	Unit 1-4	455,259	455,259	100.0%	COMPLETE
Dan River Combined Cycle Station	Basin	Primary Basin	1,421,329	1,421,329	100.0%	COMPLETE
	Basin	Secondary Basin	495,410	495,410	100.0%	COMPLETE
	Fill	Ash Stack 1	1,385,165	1,385,165	100.0%	COMPLETE
	Fill	Ash Stack 2	573,778	573,778	100.0%	COMPLETE

H. F. Lee Energy Complex	Basin	Active/ 1982 Ash Pond	4,097,437	1,482,485	36.2%	Ash sent to the STAR Unit (includes count of ash sent Ash Ponds 1, 2, and 3) and screener reject sent to offsite landfill
	Basin	Ash Pond 1	232,549	6,766	2.9%	
	Basin	Ash Pond 2	463,536	-	0.0%	
	Basin	Ash Pond 3	767,387	624,619	81.4%	Ash sent to the active/1982 Basin for processing
	Fill	Lay of Land Area	72,000	-	0.0%	
Marshall Steam Station	Basin	Retired Ash Basin	16,704,000	2,976,563	17.8%	Excludes PVSF and 1804 Phase II
Mayo Steam Electric Plant	Basin	Ash Pond	6,600,000	2,474,118	37.5%	Excludes FGD pond quantities sent to monofill
Riverbend Steam Station	Pond	Primary & Secondary Ash Basins	5,334,910	5,334,910	100.0%	COMPLETE
Roxboro Steam Electric Plant	Fill	Ash Fill for Gypsum Pad	157,200	-	0.0%	
	Basin	East Ash Pond	4,159,826	349,181	8.4%	East Ash Pond (includes ash stack)
	Basin	West Ash Basin	12,700,174	2,382,000	18.8%	
L. V. Sutton Energy Complex	Basin	1971 Ash Basin	3,521,235	3,521,235	100.0%	COMPLETE
	Basin	1984 Ash Basin	3,268,113	3,268,113	100.0%	COMPLETE
	Fill	Lay of Land Ash Storage	861,366	861,366	100.0%	COMPLETE
W. H. Weatherspoon Power Plant	Basin	1979 Ash Pond	1,953,899	1,627,952	83.3%	
TOTALS			123,924,088	48,182,534	38.8%	