

## Department of Environmental Quality Quarterly Report April 1, 2020

### **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
- 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
- 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
- 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

## 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 must be submitted no later than December 31, 2019.

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 beneficial 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.
- Updated corrective action plans have yet to be submitted for several facilities. Once corrective action plans are approved, then a final cost estimate can be determined.

#### **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

- Assessment and Corrective Action Status
  - December 18, 2020 – Duke Energy submits a process and plan for documenting soil closure for impoundments remaining to be excavated.
    - January 28, 2021 – DWR approves plan.
  - DEQ is currently preparing a process for further optimization of the groundwater monitoring program for all Duke Energy facilities. The process will use statistics and specific site needs to reduce the number of wells and parameters being sampled while also requiring periodic comprehensive sampling to evaluate data trends.

### Allen Steam Station

- Assessment and Corrective Action Status
  - DWR is continuing to review the Updated CAP Report for the impoundments and associated other primary and secondary sources.
  - DWR is continuing to review the CSA for primary and secondary sources not associated with the impoundments. This includes the Gypsum Pad.
- Closure Status
  - October 28, 2020 – DEQ approves the Closure Plan.
- NPDES permit NC0004979
  - October 29, 2020 – Major modification application acknowledged.
    - Modification is in review.
- SOC S17-009
  - Amendment is on hold.

### Asheville Steam Electric Plant

- Assessment and Corrective Action Status
  - DWR is continuing to review the Updated CSA for primary and secondary sources associated with the impoundments. These include the impoundments and the raw coal pile.
    - The CAP for the primary and secondary sources associated with the impoundments will be due six months after DWR “approves” the CSA.
- Closure Status
  - January 15, 2021 – Duke Energy submits closure report for the 1982 Basin.
    - DEQ is currently reviewing the report.
  - Excavation of the 1964 Basin is in progress.
  - Excavation of the 1982 Basin is complete.
- NPDES permit NC0000396
  - No update this quarter.
- SOC S17-010
  - No update this quarter.

### Belews Creek Steam Station

- Assessment and Corrective Action Status
  - January 25, 2021 – Duke Energy submits request to deactivate interim corrective action measures (extraction wells) at the facility due to property acquisition.
    - DEQ is reviewing request.
  - DWR is continuing to review the Updated CAP Report for the impoundments and associated other primary and secondary sources.
  - DWR and DWM is continuing to review the CSAs for primary and secondary sources not associated with the impoundments. These include the Coal Pile, Gypsum Pad, and Structural Fill.
    - DWR and DWM are currently reviewing the CSAs.
- Closure Status

- Closure is on-going.
- NPDES permit NC0024406
  - November 4, 2020 – Major modification application received.
    - December 15, 2020 – Draft modification was public noticed.
- SOC S18–004
  - No update this quarter.
- SOC S18–009
  - No update this quarter.

#### Buck Combined Cycle Station

- Assessment and Corrective Action Status
  - February 1, 2021 – Duke Energy submits Updated CSA for Impoundments and Other Primary and Secondary Sources. This includes the Coal Pile.
    - DWR is currently reviewing the Updated CSA.
    - The CAP for the primary and secondary sources associated with the impoundments will be due six months after DWR “approves” the CSA.
- Closure Status
  - Closure is on-going.
- NPDES Permit NC0004774
  - No update this quarter.
- SOC S18–004
  - No update this quarter.

#### Cape Fear Steam Electric Plant

- Assessment and Corrective Action Status
  - DWR is currently reviewing the CSA for primary and secondary sources associated with the impoundments. These include the impoundments and the former coal pile storage areas.
    - The CAP for the primary and secondary sources associated with the impoundments will be due six months after DWR “approves” the CSA.
- 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
  - December 18, 2020 – Duke Energy submits CSA for Other Primary and Secondary Sources. This includes the Switchyard Area.
    - DWR is currently reviewing CSA.

- December 18, 2020 – Duke Energy submits CSA for Other Primary and Secondary Sources. This includes Unit 6, Raw Coal Piles North of Unit 6, and the Gypsum Pile.
  - DWR is currently reviewing CSA.
- DWR is continuing to review the Updated CAP Report for the impoundments and associated other primary and secondary sources.
- Closure Status
  - Permit held pending changes to 40 CFR 423 being finalized.
  - February 12, 2021 – Second public notice (with additional changes)
  - Closure is on-going.
  - Excavation of the Inactive Units 1–4 is complete.
- SOC S17–009
  - Amendment is on hold.

#### Dan River Combined Cycle Station

- Assessment and Corrective Action Status
  - DWR is continuing to review the Updated CAP for primary and secondary sources associated with the impoundments. These include the impoundments and former coal yard.
- Closure Status
  - May 19, 2020 – Duke Energy submits Closure Report.
    - DEQ is currently reviewing the Closure Report.
  - Excavation is complete.
- NPDES permit NC0003468
  - No update this quarter.

#### H. F. Lee Energy Complex

- Assessment and Corrective Action Status
  - DWR is continuing to review the Updated CSA for primary and secondary sources associated with the impoundments. These include the impoundments, Coal Staging/Pile Area, and Lay of Land Area.
    - The CAP for the primary and secondary sources associated with the impoundments will be due six months after DWR “approves” the CSA.
- 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
  - DWR is continuing to review the Updated CAP Report for the impoundments and associated other primary and secondary sources.
- Closure Status
  - Closure is on-going.
- NPDES permit NC0004987
  - January 12, 2021 – Major permit modification application received.
    - Draft modification was public noticed on February 9, 2021.
- SOC S17-009
  - Amendment is on hold.

### Mayo Steam Electric Plant

- Assessment and Corrective Action Status
  - December 18, 2020 – Duke Energy submits the CSA for Other Primary and Secondary Sources. This includes the Gypsum Pad and Low Volume Wastewater Pond.
    - DWR is currently reviewing the CSA.
    - The CAP for the primary and secondary sources not associated with the impoundments will be due six months after DWR “approves” the CSA.
  - DWR is continuing to review the Updated CAP Report for the impoundments and associated other primary and secondary sources.
- Closure Status
  - Closure is on-going.
- NPDES permit NC0038377
  - No update this quarter.
- SOC S18-005
  - No update this quarter.

### Riverbend Steam Station

- Assessment and Corrective Action Status
  - DWR is continuing to review the Updated CAP for primary and secondary sources associated with the impoundments. These include the impoundments and coal yard.
- Closure Status
  - October 9, 2020 – DEQ approves the Closure Report.
  - Excavation is complete.
- NPDES permit NC0004961
  - February 15, 2021 – Permit issued. Effective date is March 1, 2021.
- SOC S16-005
  - No update this quarter.



### Roxboro Steam Electric Plant

- Assessment and Corrective Action Status
  - DWR is continuing to review the Updated CAP Report for the impoundments and associated other primary and secondary sources.
  - February 26, 2020 – DEQ approves the request to extend deadlines for upcoming CSAs and CAPs. The following is the new approved report deadline:
    - March 31, 2021 – CSA for primary and secondary sources not associated with the impoundments.
    - The CAP for the primary and secondary sources not associated with the impoundments will be due six months after DWR “approves” the CSA.
- Closure Status
  - Closure is on-going.
- NPDES permit NC0003425
  - January 4, 2021 – Major permit modification application received.
    - Review in progress.
- SOC S18–005
  - No update this quarter.

### L. V. Sutton Energy Complex

- Assessment and Corrective Action Status
  - DWR is continuing to review the Updated CAP for primary and secondary sources associated with the impoundments.
- Closure Status
  - January 14, 2021 – Duke Energy submits closure report for 1971 and 1984 Basins.
    - DEQ is currently reviewing the report.
  - October 16, 2020 – Duke Energy submits closure certification for the Lay of Land Area.
    - DWR is currently reviewing the closure certification.
  - 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
  - DWR is continuing to review the Updated CSA for primary and secondary sources associated with the impoundments. DEQ to review.
    - The CAP for the primary and secondary sources associated with the impoundments will be due six months after DWR “approves” the CSA.
- 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)

- Approved Final Closure Plan
  - All impoundment ash from to be excavated and placed in onsite lined landfills (3619-INDUS-202X, 3620-INDUS-202X, and 3621-INDUS-202X).
- 3612-INDUS-2008: Retired Ash Basin Landfill (open, double-lined, landfill constructed on top of retired ash basin)
  - No update this quarter.
- 3619-INDUS-20XX: North Starter Landfill per CAMA
  - January 27, 2021 – Updated Technical Review of PTC applications and Site Suitability issued
  - February 9, 2021 – Concurrence of land clearing issued
- 3620-INDUS-20XX: South Starter Landfill per CAMA
  - January 27, 2021 – Updated Technical Review of PTC applications and Site Suitability issued
- 3621-INDUS-20XX: Basin Landfill per CAMA
  - No update this quarter.

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

- 1119-INDUS-2020
  - Currently under construction.

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

- Approved Final Closure Plan
  - All impoundment ash to be excavated and placed in onsite lined landfill (8506-INDUS-20XX).
- 8503-INDUS-1984: Pine Hall Road Landfill (closed, unlined – composite cap system)
  - Currently assessing the limits of the unlined/earthen capped area of the landfill (flat area), for extent and stability.
  - 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)
  - No updates at this time.
  - Groundwater Assessment
    - No update this quarter.
- 8506-INDUS-20XX: Basin Landfill per CAMA
  - January 27, 2021 – Updated Technical Review of PTC applications and Site Suitability issued.

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

- 7906-INDUS-2016: CCR Landfill (open, lined)
  - December 18, 2021 – Closure permit issued

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

- Excavation Plan
  - February 5, 2021 – Updated Excavation Plan submitted
- Approved Final Closure Plan
  - All impoundment ash to be excavated and placed in onsite lined landfill (LF 7307-INDUS).
- 7305-INDUS-2012: CCR Landfill (open, double lined)
  - No update this quarter.
  - Groundwater Assessment
    - No update this quarter.

Marshall Steam Station – Catawba County (current coal fired)

- Excavation Plan
  - February 5, 2021 – Updated Excavation Plan submitted.
- Approved Final Closure Plan
  - All impoundment ash to be excavated except ash beneath structural fill CCB0031 and Dry Ash Landfill Phase 2 and placed in onsite lined landfill (1812-INDUS-2008).
- 1804-INDUS-1983: Dry Ash Landfill (closed, unlined – Phase 2 composite cap system)
  - No update this quarter.
  - 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)
  - January 21, 2021 – Phase 2 Permit to Construct issued.
- MAR-145 Stormwater Reroute Project
  - Project complete.
- MAR-152 Stormwater Reroute Project
  - February 5, 2021 – Visual Removal Verification letter for Area 4.
  - January 29, 2021 – Visual Removal Verification letter for Grid AX-14.
  - January 15, 2021 - Visual Removal Verification letter received for Grids AU-21, AV-21, and AW-21.

Rogers Energy Complex – Rutherford County (current coal fired)

- Approved Final Closure Plan
  - All impoundment ash to be excavated and placed in onsite lined landfill (8106–INDUS–2009).
- Excavation Plan
  - February 5, 2021 – Updated Excavation Plan submitted.
- 8106–INDUS–2009: CCR Landfill (open, lined)
  - Phase 3 and 4 currently under construction.

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

- Approved Final Closure Plan
  - All impoundment ash to be excavated except ash beneath existing/operating landfill 7302 and placed in onsite lined landfill (7302-INDUS-1998).
- 7302–INDUS–1988: CCR Landfill (open, lined, constructed partially on top of retired ash basin)
  - January 27, 2021 – Updated Technical Review of PTC applications and Site Suitability issued.

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

- 6512–INDUS–2016: CCR Landfill (open, lined)
  - March 11, 2021 – Annual Site Inspection.
  - February 17, 2021 – Closure Permit issued.
  - January 13, 2021 – CQA Closure Certification submitted.

**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
  - February 5, 2021 – Updated Excavation Plan submitted.
  - November 11, 2020 – Received Excavation Plan.
- Approved Final Closure Plan
  - All impoundment ash to be excavated and beneficiated through the onsite STAR plant process.

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

- Excavation Plan
  - February 5, 2021 – Updated Excavation Plan submitted.
- Approved Final Closure Plan
  - All impoundment ash to be excavated and beneficiated through the STAR plant process.
    - February 2021 – STAR Plant in operation.

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

- Excavation Plan
  - February 5, 2021 – Updated Excavation Plan submitted.
- Approved Final Closure Plan
  - All impoundment ash to be excavated and beneficiated through the STAR plant process.
    - November 2020 – STAR Plant in operation.

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
  - February 5, 2021 – Updated Excavation Plan submitted.
- Approved Final Closure Plan
  - Ash continues to be excavated and trucked to two concrete processing plants 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 structural fills in accordance with 15A NCAC 13B .1700.

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

- January 12, 2021 – Operations and Maintenance Permit Application submitted.
- December 14, 2020 – Water Quality Monitoring and Reporting Permit issued.

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

- December 14, 2020 – Settlement Agreement signed between Charah, DEQ and Petitioners.
- December 14, 2020 – Side Agreement signed between Charah and Blue Ridge Environmental Defense Law.

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

- December 14, 2020 – Settlement Agreement signed between Charah, DEQ and Petitioners.

- December 14, 2020 – Side Agreement signed between Charah and Blue Ridge Environmental Defense Law.

**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)

- September 1, 2020 – Comprehensive Site Assessment submitted.

#### 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
  - GASTO-061 (ALLEN ACTIVE ASH BASIN DAM)
    - 06/10/20 – Received submittal for the removal of four 18-inch HDPE sluice line pipes buried within the dam crest for GASTO-061 Scope 6.
      - 01/05/21 – Certificate of Approval to Repair issued.
- Erosion and Sediment Control and Construction Storm Water
  - Duke-Allen Steam Switch Station Project Erosion Permit
  - Allen North Starter Landfill Construction Erosion Permit
  - Allen South Starter Landfill Construction Erosion Permit
  - Allen CAMA Cap Project Erosion permit
- NPDES Storm Water
  - Nothing to report at this time.

### Asheville Steam Electric Plant

- Dam Safety
  - BUNCO-088 (LAKE JULIAN DAM)
    - 02/06/20 – Received submittal for the repair of the existing spillway outlet pipe by installation of a cured-in-place lining to correct infiltration for BUNCO-088 Scope 8.
      - 02/02/21 – Certificate of Final Approval to Repair issued.
- Erosion and Sediment Control and Construction Storm Water
  - BUNCO-2020-014 (1964 Ash Basin Decommissioning Crest Lowering)
    - Project to begin in March 2021.
  - BUNCO-2017-028 (Duke – Tie Line Relocation)
    - 1/27/21 – Site has been stabilized and has permanent established vegetation. E&SC project closed out and NPDES NCG010000 coverage terminated.
  - BUNCO-2016-014 (Asheville Plant - DPC Horseshoe 115KV)
    - 1/27/21 – Site has been stabilized and has permanent established vegetation. E&SC project closed out and NPDES NCG010000 coverage terminated.
  - BUNCO-2016-017 (Switchyard Expansion)



- 1/27/21 – Site has been stabilized and has permanent established vegetation. E&SC project closed out and NPDES NCG010000 coverage terminated.
- NPDES Storm Water
  - Nothing to report at this time.

### **Belews Creek Steam Station**

- Dam Safety
  - STOKE-121 (BELEWS CREEK RETENTION BASIN DAM)
    - 12/10/20 – Received submittal for the relocation of the emergency spillway to accommodate the planned closure for the Belews Creek Active Ash Basin Dam and construction of the landfill for STOKE-121 Scope 2.
- Erosion and Sediment Control and Construction Storm Water
  - STOKE-2020-007 (Belews Creek BC-159 East Pine Hall Road Future Stormwater Reroute Revision)
    - 02/10/21 – Express Review Process initiated and waiting for official submittal.
  - STOKE-2020-008 (Belews Creek Ash Basin Landfill E&SC)
    - 11/3/20 – New received and disapproved 11/25/20.
  - STOKE-2020-008 (Belews Creek Ash Basin Landfill E&SC)
    - 1/6/21 – Revision received and approved with mods 1/20/21.
  - STOKE-2021-011 (Belews Creek BC-167 LRB Spillway Replacement)
    - 12/16/20 – Received and approved 1/13/21.
- NPDES Storm Water
  - NCS000573 (Belews Creek Steam Station)
    - Following a DMR received November 24, 2020 which referenced Tier III status for SW006 due to benchmark exceedances of Copper and Zinc, additional information regarding the Tier III response actions was requested. On December 11, 2020, we requested analytical data for BC outfall SW006 since the first exceedance, a summary of corrective actions taken, and a copy of all documentation associated with the tiered response for the outfall. A response from Duke received February 1, 2021 is still under review.

### **Buck Combined Cycle Station**

- Dam Safety
  - ROWAN-079 (BUCK RETENTION BASIN DAM)
    - 12/14/20 – Received submittal for a jurisdictional determination and hazard classification request for ROWAN-079.
- Erosion and Sediment Control and Construction Storm Water
  - Nothing to report at this time.
- NPDES Storm Water
  - Nothing to report at this time.

## **Cape Fear Steam Electric Plant**

- Dam Safety
  - CHATH-075 (CAPE FEAR 1956 ASH BASIN DAM)
    - 07/25/19 – Received submittal for the slope repair for CHATH-075 Scope 5.
      - 12/04/20 – Certificate of Final Approval to Repair issued.
      - 12/03/20 – As-Built inspection performed.
    - 01/10/20 – Received revised submittal for the installation of a new auxiliary overflow spillway to safely pass a Full PMP SDF for CHATH-075 Scope 6.
      - 12/04/20 – Certificate of Final Approval to Modify issued.
      - 12/03/20 – As-Built inspection performed.
    - 08/27/20 – Received submittal to widen the existing access ramp to support ash excavation activities for CHATH-075 Scope 7.
      - 01/28/21 – Revision Request issued.
  - CHATH-077 (CAPE FEAR 1970 ASH BASIN DAM)
    - 01/27/20 – Received revised submittal for the installation of a new auxiliary overflow spillway to safely pass a Full PMP SDF for CHATH-077 Scope 3.
      - 12/04/20 – Certificate of Final Approval to Modify issued.
      - 12/03/20 – As-Built inspection performed.
  - CHATH-079 (CAPE FEAR 1985 ASH BASIN DAM)
    - 10/03/19 – Received revised submittal for the construction of an unpaved haul road for heavy duty use for ash beneficiation for CHATH-079 Scope 8.
      - 12/08/20 – As-Built submittal received.
    - 07/21/20 – Received submittal for the widening of the existing north access ramp to support ash excavation activities for CHATH-079 Scope 9.
      - 12/17/20 – EOR change request received.
      - 12/17/20 – EOR change request approved.
  - CHATH-2019-009 (Cape Fear CCP 1985 Basin Haul Road)
    - 12/3/20 – No problems noted, additional groundcover needed.
  - CHATH-2020-008 (Cape Fear 1963/1970 Ash Basin New Spillway)
    - 12/3/20 – No problems noted, additional groundcover needed.
  - CHATH-2020-005 (Cape Fear 1956 Ash Basin New Spillway)
    - 12/3/20 – Slight scour observed, but overall site in good shape. Recommended to repair erosion and stabilize.
  - CHATH-2021-005 (Cape Fear Steam Station 1956 Haul Road Widening)
    - 11/13/20 – Letter of approval.
- NPDES Storm Water
  - CHATH-2021-005
    - No updates at this time.

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

- Dam Safety
  - Nothing to report at this time.
- Erosion and Sediment Control and Construction Storm Water
  - Nothing to report at this time.
- NPDES Storm Water
  - Nothing to report at this time.

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

- Dam Safety
  - Nothing to report at this time.
- Erosion and Sediment Control and Construction Storm Water
  - ROCKI-2017-016
    - 11/2/20 – Dan River Dam Decommissioning E&SC Addendum 4 – Revised to add 0.5 acres received. Approved with mods 11/2/20.
  - ROCKI-2016-003
    - 12/03/20 – Inspected – Compliant
  - ROCKI-2017-016
    - 12/03/20 – Inspected – Compliant
  - ROCKI-2018-002
    - 01/19/21 – Inspected – Closed
  - ROCKI-2018-012
    - 12/03/21 – Inspected – Compliant
- NPDES Storm Water
  - Nothing to report at this time.

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

- Dam Safety
  - WAYNE-009 (HF LEE COOLING LAKE DAM)
    - 03/24/20 – Received revised submittal for the removal of vegetation along the original dam spillway for WAYNE-009 Scope 7.
      - 03/31/20 – Certificate of Approval to Repair issued.
      - 02/09/21 – As-Built submittal received.
  - WAYNE-033 (HF LEE INACTIVE ASH BASIN #3 DAM)
    - 11/23/20 – Received submittal for the construction of a truck access ramp from the dike crest to the water treatment pad for WAYNE-033 Scope 6.
      - 02/09/21 – Revision Request issued.
  - WAYNE-031 (HF Lee INACTIVE ASH BASIN #1 DAM)
    - 12/10/20 – Update to revision request – Scope 3 received.
  - WAYNE-032 (HF LEE INACTIVE ASH BASIN #2 DAM)
    - 08/05/20 – Received submittal for the relocation of a 200-foot section of dam near Half-Mile Branch Stream for WAYNE-032 Scope 6.

- 2/17/21 – Revision request response – Scope 6.
  - 2/9/21 – Revision request – Scope 6 sent out.
  - 12/18/20 – Revision Request issued.
- Erosion and Sediment Control and Construction Storm Water
  - Nothing to report at this time.
- NPDES Storm Water
  - Nothing to report at this time.

### **Marshall Steam Station**

- Dam Safety
  - Nothing to report at this time.
- Erosion and Sediment Control and Construction Storm Water
  - CATAW-2016-008
    - 02/09/2021 – Inspected – Compliant
  - CATAW-2017-007
    - 02/09/2021 – Inspected – Compliant
  - CATAW-2019-019
    - 02/09/2021 – Inspected – Closed
  - CATAW-2019-021
    - 02/09/2021 – Inspected – Closed
  - CATAW-2020-017
    - 02/09/2021 – Inspected – Compliant
  - CATAW-2021-003
    - 02/09/2021 – Inspected – Compliant
  - Marshall MAR-152 SW Basin and Diversion Channel Erosion Permit
  - Marshall Phase 2 Industrial Landfill Erosion Permit
  - Marshall Construction Laydown Area Erosion Permit
- NPDES Storm Water
  - NPDES permit renewal under review and gone to public notice on 02/22/21.

### **Mayo Steam Electric Plant**

- Dam Safety
  - PERSO-034 (MAYO LAKE DAM)
    - 01/29/21 – Received submittal for the removal of two trees and rootballs along the north side of the primary spillway for PERSO-034 Scope 3.
- Erosion and Sediment Control and Construction Storm Water
  - PERSO-2021-008
    - 2/7/21 – Mayo Ash Basin Landfill Erosion and Sediment Control Plan/ Letter of Approval.
- NPDES Storm Water
  - PERSO-2021-008
    - 2/7/21 – Letter of approval.

### **Riverbend Steam Station**

- Dam Safety
  - Nothing to report at this time.
- Erosion and Sediment Control and Construction Storm Water
  - Storm water Tie Riverbend Upper 230 Tie, Erosion Permit.
  - Riverbend Phase 5 Erosion Permit
- NPDES Storm Water
  - Nothing to report at this time.

### **Roxboro Steam Electric Plant**

- Dam Safety
  - PERSO-002 (LAKE HYCO DAM)
    - 01/11/21 – Received revised submittal for the upgrade of the auxiliary spillway for PERSO-002 Scope 4.
      - 01/15/21 – Certificate of Approval to Modify issued.
- Erosion and Sediment Control and Construction Storm Water
  - Nothing to report at this time.
- NPDES Storm Water
  - Nothing to report at this time.

### **L. V. Sutton Energy Complex**

- Dam Safety
  - Nothing to report at this time.
- Erosion and Sediment Control and Construction Storm Water
  - Nothing to report at this time.
- NPDES Storm Water
  - Nothing to report at this time.

### **Brickhaven No 2. Tract “A”**

- Dam Safety
  - Nothing to report at this time.
- Erosion and Sediment Control
  - Nothing to report at this time.
- Mining
  - Nothing to report at this time.
- NPDES Storm Water
  - Nothing to report at this time.

**Colon Mine Permit 53-05**

- Dam Safety
  - Nothing to report at this time.
- Erosion and Sediment Control
  - Nothing to report at this time.
- Mining
  - Received letter of intent to modify permit per Consent Order.
- NPDES Storm Water
  - Nothing to report at this time.

**W. H. Weatherspoon Power Plant**

- Dam Safety
  - Nothing to report at this time.
- Erosion and Sediment Control and Construction Storm Water
  - Nothing to report at this time.
- NPDES Storm Water
  - Nothing to report at this time.

**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	DECOMMISSIONED
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 Station)	Cliffside River Dam	CLEVE-053	ACTIVE
James E. Rogers Energy Complex (Cliffside 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	ON-GOING DECOMISSION
Dan River Combined Cycle Station	Dan River Active Secondary Ash Basin Dam	ROCKI-238	ON-GOING DECOMISSION
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	Energy	H.F. Lee Inactive Ash Basin 3 Dam	WAYNE-033	INACTIVE
H.F. Lee Energy Complex	Energy	H.F. Lee Permanent Stormwater Pond Dam	WAYNE-036	ACTIVE
H.F. Lee Energy 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 Electric Plant	Electric	Mayo Lake Dam	PERSO-034	ACTIVE
Mayo Steam Electric Plant	Electric	Mayo Active Ash Pond Dam	PERSO-035	INACTIVE
Mayo Steam Electric Plant	Electric	Mayo FGD Settling Pond Dam	PERSO-036	DECOMISSIONED
Mayo Steam Electric Plant	Electric	Mayo FGD Flush Pond Dam	PERSO-037	DECOMISSIONED
Mayo Steam Electric Plant	Electric	Mayo Coal Pile Dam	PERSO-046	ACTIVE
Mayo Steam Electric Plant	Electric	Mayo FGD Settling Basin Dam	PERSO-049	ACTIVE
Mayo Steam Electric 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	ON-GOING DECOMISSION
Roxboro Electric Plant	Steam	Roxboro East FGD Settling Pond Dam	PERSO-041	ON-GOING DECOMISSION
Roxboro Electric Plant	Steam	Roxboro FGD Forward Flush Pond Dam	PERSO-042	ON-GOING DECOMISSION
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