Department of Environmental Quality
Quarterly Report July 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 – 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
Divison 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 facilities 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.

Litigation of Closure Methodology for Low Risk Facilities
The following is a timeline summary of recent events related to litigation of the closure methodology for the low risk impoundments:

- April 1, 2019 – DEQ directed Duke to fully excavate all the ash basins.
- December 31, 2019 – Duke Energy, DEQ, and several community environmental groups entered into a Settlement Agreement ending the appeal litigation.
- January 31, 2020 – A Consent Order incorporating the terms of the Settlement Agreement was filed with Wake County Superior Court.
  o The Consent Order mandated that all nine impoundments at the low risk facilities be excavated and the CCR be placed in on-site landfills.

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 beneficiation 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
  - February 26, 2020 – DEQ approves Duke Energy’s February 14, 2020 request to extend deadlines for upcoming CSAs and CAPs.
  - February 14, 2020 – Duke Energy submits request to extend deadlines for upcoming CSAs and CAPs.

Allen Steam Station

- Assessment and Corrective Action Status
  - February 26, 2020 – DEQ approves the request to extend deadlines for upcoming CSAs and CAPs. The following is the new approved report deadlines:
    - September 1, 2020 – Updated CSA for primary and secondary sources not associated with the impoundments.

- Closure Status
  - March 27, 2020 – Duke Energy communicates to DEQ that a third landfill is now proposed at the site. DEQ requested Duke Energy to submit updated information on the third landfill so that the closure plan will be complete.
  - February 27, 2020 – DEQ holds public hearing for closure plan.
  - May 9, 2019 – DEQ reestablished Closure Plans to be due December 31, 2019.
  - April 26, 2019 – Duke Energy filed an appeal with the Office of Administrative Hearings contesting the closure determination.
  - April 1, 2019 – Per 130A–309.214(a)(3), DEQ determined that excavation under 130A–309.214(a)(1) shall be the method of closure for the impoundments.
  - November 13, 2018 – DEQ deemed that this facility is low risk based on criteria under G.S. 130A–309.213(d)(1). Therefore, the impoundments are required to be closed no later than December 31, 2029. A proposed closure plan must be submitted no later than December 31, 2019.

- NPDES permit NC0004979
  - February 7, 2020 – Major permit modification issued.
  - November 13, 2019 – Major modification application received.
  - August 1, 2018 – Permit became effective.
• SOC S17–009
  o November 29, 2019 – SOC amendment application received.
    ▪ Application is under discussion.
  o April 12, 2018 – SOC was signed by the EMC.

Asheville Steam Electric Plant
• Assessment and Corrective Action Status
  o February 26, 2020 – DEQ approves the request to extend deadlines for upcoming CSAs and CAPs. The following is the new approved report deadlines:
    ▪ December 1, 2020 – Updated CSA for primary and secondary sources associated with the impoundments.
    ▪ The CAP for the primary and secondary sources associated with the impoundments will be due six months after DEQ “approves” the CSA.

• Closure Status
  o Excavation of the 1964 Basin is in progress.
  o Excavation of the 1982 Basin is complete.

• NPDES permit NC0000396
  o April 9, 2020 – Major modification was issued and became effective May 1, 2020.
  o May 24, 2019 – Major modification was issued and became effective July 1, 2019.
  o December 1, 2018 – Permit became effective.

• SOC S17–010
  o October 10, 2018 – SOC was signed by the EMC.

Belews Creek Steam Station
• Assessment and Corrective Action Status
  o April 8, 2020 – DEQ approves Duke Energy’s surface water work plan for the coal pile and gypsum areas.
  o April 6, 2020 – Duke Energy submits a surface water work plan for the coal pile and gypsum areas.
  o February 26, 2020 – DEQ approves the request to extend deadlines for upcoming CSAs and CAPs. The following is the new approved report deadlines:
    ▪ September 1, 2020 – Updated CSA for primary and secondary sources not associated with the impoundments.
• **Closure Status**
  
  o April 17, 2020 – Duke Energy submits a modeling demonstration showing the groundwater standards will be met at the geographic boundary per the Consent Order.
  
  o February 18, 2020 – DEQ holds public hearing for closure plan.
  
  
  o May 9, 2019 – DEQ revised previous correspondence and reestablished Closure Plan to be due December 31, 2019.
  
  o April 26, 2019 – Duke Energy filed an appeal with the Office of Administrative Hearings contesting the closure determination.
  
  o April 1, 2019 – Per 130A–309.214(a)(3), DEQ determined that excavation under 130A–309.214(a)(1) shall be the method of closure for the impoundments.
  
  o November 13, 2018 – DEQ deemed that this facility is low risk based on criteria under G.S. 130A–309.213(d)(1). Therefore, the impoundments are required to be closed no later than December 31, 2029. A proposed closure plan must be submitted no later than December 31, 2019.

• **NPDES permit NC0024406**
  
  o March 25, 2019 – Permit became effective.

• **SOC S18–004**
  
  o July 12, 2018 – SOC was signed by the EMC.

• **SOC S18–009**
  
  o April 18, 2020 – SOC amendment application received. Application is under discussion.
  
  o March 21, 2019 – SOC was signed by the Division Director.

**Buck Combined Cycle Station**

• **Assessment and Corrective Action Status**
  
  
  o February 26, 2020 – DEQ approves the request to extend deadlines for upcoming CSAs and CAPs. The following is the new approved report deadlines:
    
    ▪ February 1, 2021 – Updated CSA for primary and secondary sources associated with the impoundments.
    
    ▪ The CAP for the primary and secondary sources associated with the impoundments will be due six months after DEQ “approves” the CSA.

• **Closure Status**
  
  o April 17, 2020 – DEQ receives Closure Plan Revision from Duke Energy.
  
  o February 24, 2020 – DEQ holds public hearing for closure plan.
  
  
  o November 13, 2018 – DEQ deemed that this facility is low risk based on criteria under G.S. 130A–309.213(d)(1). However, since Duke Energy selected this site for beneficial reuse, this site does not have to close until December 31, 2029.
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 beneficiation projects must close by December 31, 2029.

**NPDES Permit NC0004774**
- May 11, 2020 – Major modification public noticed.
- December 17, 2019 – Major modification application received.
- November 1, 2018 – Permit became effective.

**SOC S18–004**
- July 12, 2018 – SOC was signed by the EMC.

### Cape Fear Steam Electric Plant

- **Assessment and Corrective Action Status**
  - February 26, 2020 – DEQ approves the request to extend deadlines for upcoming CSAs and CAPs. The following is the new approved report deadlines:
    - December 1, 2020 – Updated CSA for primary and secondary sources associated with the impoundments.
    - The CAP for the primary and secondary sources associated with the impoundments will be due six months after DEQ “approves” the CSA.

- **Closure Status**
  - February 12, 2020 – DEQ holds public hearing for closure plan.
  - Per G.S. 130A–309.216, Duke Energy was required to identify, at a minimum, three sites for beneficial reuse. The Cape Fear Steam Electric Plant was selected for beneficial reuse. G.S. 130A–309.216(c) states that sites selected for beneficiation projects must close by December 31, 2029.

- **NPDES Permit NC0003433**
  - March 17, 2020 – Major modification application received. Permit review has not yet begun.
  - December 21, 2018 – Major modification was issued and became effective February 1, 2019.

- **SOC S19-001**

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

- **Assessment and Corrective Action Status**
  - May 19, 2020 – DEQ approves Duke Energy’s request for abandonment of several monitoring wells.
May 18, 2020 – Duke Energy submits request for abandonment of several monitoring wells.


February 26, 2020 – DEQ approves the request to extend deadlines for upcoming CSAs and CAPs. The following is the new approved report deadlines:
  - December 18, 2020 – Updated CSA for primary and secondary sources not associated with the impoundments.

• Closure Status
  - Inactive Units 1–4 are completely excavated. On August 10, 2018, DEQ approved the visual verification of CCR removal.

• NPDES permit NC0005088
  - September 1, 2018 – Permit became effective.

• SOC S17–009
  - November 29, 2019 – SOC amendment application received. Amendment under discussion.
  - April 12, 2018 – SOC was signed by the EMC.

Dan River Combined Cycle Station

• Assessment and Corrective Action Status
  - February 26, 2020 – DEQ approves the request to extend deadlines for upcoming CSAs and CAPs. The following is the new approved report deadlines:
    - November 2, 2020 – Updated CAP for primary and secondary sources associated with the impoundments.
  - April 5, 2019 – DEQ reestablished dates for Duke Energy to submit the following with regards to CSAs and CAPs:
    - July 1, 2020 – Updated CAP for impoundments and other primary and secondary sources (former coal yard).

• Closure Status
  - March 11, 2020 – DEQ approves confirmation of Duke Energy’s compliance with CAMA excavation and closure requirements.
  - Excavation is complete.

• NPDES permit NC0003468
  - February 1, 2019 – Permit became effective.

H. F. Lee Energy Complex

• Assessment and Corrective Action Status
February 26, 2020 – DEQ approves the request to extend deadlines for upcoming CSAs and CAPs. The following is the new approved report deadlines:

- December 1, 2020 – Updated CSA for primary and secondary sources associated with the impoundments.
- The CAP for the primary and secondary sources associated with the impoundments will be due six months after DEQ “approves” the CSA.

Closure Status
- Per G.S. 130A–309.216, Duke Energy was required to identify, at a minimum, three sites for beneficial reuse. The H. F. Lee Energy Complex was selected for beneficial reuse. G.S. 130A–309.216(c) states that sites selected for beneficiation projects must close by December 31, 2029.

NPDES permit NC0003417
- November 12, 2019 – Major modification application was received.
- July 1, 2019 – Permit became effective.

SOC S18–006
- January 10, 2019 – SOC was signed by the EMC.

Marshall Steam Station
- Assessment and Corrective Action Status
- Closure Status

NPDES permit NC0004987
- May 1, 2018 – Permit became effective.

SOC S17–009
- November 29, 2019 – SOC amendment application received. Amendment under discussion.
- April 12, 2018 – SOC was signed by the EMC.

Mayo Steam Electric Plant
- Assessment and Corrective Action Status

February 26, 2020 – DEQ approves the request to extend deadlines for upcoming CSAs and CAPs. The following is the new approved report deadlines:
- December 31, 2020 – Updated CSA for primary and secondary sources not associated with the impoundments.

- **Closure Status**

- **NPDES permit NC0038377**
  - August 1, 2018 – Permit became effective.

- **SOC S18–005**
  - August 15, 2018 – SOC was signed by the EMC.

**Riverbend Steam Station**

- **Assessment and Corrective Action Status**
  - February 26, 2020 – DEQ approves the request to extend deadlines for upcoming CSAs and CAPs. The following is the new approved report deadlines:
    - November 2, 2020 – Updated CAP for primary and secondary sources associated with the impoundments.

- **Closure Status**
  - December 6, 2019 – DEQ sends Closure Certification letter for the basin.
  - Excavation is complete.

- **NPDES permit NC0004961**
  - August 27, 2019 – Renewal application received.
  - December 1, 2016 – Permit became effective.

- **SOC S16–005**
  - November 10, 2016 – SOC was signed by the Division Director.

**Roxboro Steam Electric Plant**

- **Assessment and Corrective Action Status**
  - February 26, 2020 – DEQ approves the request to extend deadlines for upcoming CSAs and CAPs. The following is the new approved report deadlines:
March 31, 2021 – CSA for primary and secondary sources not associated with the impoundments.

- **Closure Status**
  - April 17, 2020 – Duke Energy submits a modeling demonstration showing the groundwater standards will be met at the geographic boundary per the Consent Order.
  - February 19, 2020 – DEQ holds public hearing for closure plan.
  - May 9, 2019 – DEQ revised previous correspondence and reestablished Closure Plan to be due December 31, 2019.
  - April 26, 2019 – Duke Energy filed an appeal with the Office of Administrative Hearings contesting the closure determination.
  - April 1, 2019 – Per 130A–309.214(a)(3), DEQ determined that excavation under 130A–309.214(a)(1) shall be the method of closure for the impoundments.
  - November 13, 2018 – DEQ deemed that this facility is low risk based on criteria under G.S. 130A–309.213(d)(1). Therefore, the impoundments are required to be closed no later than December 31, 2029. A proposed closure plan must be submitted no later than December 31, 2019.

- **NPDES permit NC0003425**
  - January 19, 2020 – Draft permit was public noticed. Awaiting management approval for permit issuance.
  - September 28, 2011 – Renewal application received.

- **SOC S18–005**
  - August 15, 2018 – SOC was signed by the EMC.

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**L. V. Sutton Energy Complex**

- **Assessment and Corrective Action Status**
  - February 26, 2020 – DEQ approves the request to extend deadlines for upcoming CSAs and CAPs. The following is the new approved report deadlines:
    - August 3, 2020 – Updated CAP for primary and secondary sources associated with the impoundments.

- **Closure Status**
  - December 13, 2019 – DEQ sends Closure Certification letter for the 1984 basin.
  - Excavation of the 1971 Basin is complete.
  - Excavation of the 1984 Basin is complete.
• NPDES permit NC0001422
  o April 7, 2020 – Draft permit public noticed.
  o January 20, 2020 – Major modification application received.
  o October 1, 2017 – Permit became effective.

W. H. Weatherspoon Power Plant
• Assessment and Corrective Action Status
  o February 26, 2020 – DEQ approves the request to extend deadlines for upcoming CSAs and CAPs. The following is the new approved report deadlines:
    ▪ August 3, 2020 – Updated CSA for primary and secondary sources associated with the impoundments.
    ▪ The CAP for the primary and secondary sources associated with the impoundments will be due six months after DEQ “approves” the CSA.
  • Closure Status
    o April 17, 2020 – DEQ receives Closure Plan Revision from Duke Energy.
    o February 13, 2020 – DEQ holds public hearing for closure plan.
    o Per G.S. 130A–309.216, Duke Energy was required to identify, at a minimum, three sites for beneficial reuse. The W. H. Weatherspoon Power Plant was selected for beneficial reuse. G.S. 130A–309.216(c) states that sites selected for beneficiation projects must close by December 31, 2029.
  • NPDES permit NC0005363
    o November 1, 2018 – Permit became effective.
  • SOC S19-006
    o January 27, 2020 – SOC signed by Division Director. SOC expires on August 31, 2023.

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)

• 3612–INDUS–2008: Retired Ash Basin Landfill (open, double-lined, landfill constructed on top of retired ash basin)
  o June 10, 2019 – Permit renewal received by the Division.
  o January 23, 2019 – Inspected.
• December 31, 2019 – Duke submitted proposed Final Closure Plan
  o All impoundment ash to be excavated and placed in onsite lined landfill.
  o February 6, 2020 – Duke submitted revised Table 10–1 of Closure Plan.
  o January 30, 2020 – Amended Closure Plan submitted.
  o March 19, 2020 – Duke proposed three onsite landfills: North Starter, South Starter, Main Basin Landfill.
  o April 27, 2020 – DWM approved the Plan.

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

• 8503–INDUS–1984: Pine Hall Road Landfill (closed, unlined – composite cap system)
  o Currently assessing the limits of the unlined/earthen capped area of the landfill (flat area), for extent and stability.
  o March 19, 2019 – Inspected.
  o Groundwater Assessment
    ▪ No updates at this time.
• 8504–INDUS–2007: Craig Road Landfill (open, lined)
  o May 17, 2019 – Division approval of storm water drainage modifications.
  o May 2, 2019 – Storm water drainage modifications received by the Division.
  o March 19, 2019 – Inspected.
  o Groundwater Assessment
    ▪ No updates at this time.
• 8505–INDUS–2008: Flue Gas Desulfurization (FGD) Landfill (open, lined)
  o March 19, 2019 – Inspected.
  o September 25, 2019 – Division approval of access road modifications.
  o October 29, 2019 – Division approval of leachate line modifications.
  o Groundwater Assessment
    ▪ No updates at this time.
• December 31, 2019 – Duke submitted proposed Final Closure Plan
  o All impoundment ash to be excavated and placed in onsite lined landfill.
  o February 6, 2020 – Duke submitted revised Table 10–1 of Closure Plan.
  o April 17, 2020 – DWM approved Plan.
Dan River Steam Station – Rockingham County (retired coal–fired plant, converted to combined cycle turbine)

- 7906–INDUS–2016: CCR Landfill (open, lined)
  - October 24, 2019 – Inspected.
  - Coal ash disposal complete, landfill has been covered with intermediate cover material, final closure underway.
  - April 9, 2020 – DWM approved request to use ash stack 2 soil for final closure of landfill.
  - April 8, 2020 – Construction of final closure cap system began.

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

- 7305–INDUS–2012: CCR Landfill (open, double lined)
  - September 25, 2019 – Inspected.
  - Groundwater Assessment
    - No updates at this time.
  - October 16, 2019 – Third Party Review submitted in response to NOV.
  - April 1, 2020 – DWM response to Leachate Release Assessment Update.
    - All impoundment ash to be excavated and placed in onsite lined landfill.
    - February 6, 2020 – Duke submitted revised Table 10–1 of Closure Plan.
    - April 22, 2020 – DWM approval of Plan.
    - April 29, 2020 – DEQ issued Final Closure Decision and determination of CAMA compliance.

Marshall Steam Station – Catawba County (current coal fired)

- 1804–INDUS–1983: Dry Ash Landfill (closed, unlined – Phase 2 composite cap system)
  - March 3, 2020 – DWM approved the Plan.
  - March 24, 2020 – Submittal and approval of boring plan for depth of ash investigation.
June 27, 2019 – Inspected.

Groundwater Assessment
  ▪ No updates at this time.

1809–INDUS: FGD Landfill (closed, lined)
  o April 1, 2019 – Closure CQA report, Post–closure plan and WQMP received.
    ▪ Permit for Closure has not been issued.
  o June 27, 2019 – Inspected.

Groundwater Assessment
  ▪ No updates at this time.

1812–INDUS–2008: Industrial Landfill #1 (open, double–lined)
  o June 27, 2019 – Inspected.
  o April 2, 2020 – DWM response to Soil Assessment Corrective Actions Complete for leachate release (August 5, 2019), no further action required.

MAR–145 Stormwater Reroute Project
  o April 7, 2020 – DEQ issued confirmation of excavation requirements for East Finger Pond.
  o December 13, 2019 – DEQ issued confirmation of excavation requirements for West Finger Pond.

  o All impoundment ash to be excavated except ash beneath structural fill CCB0031 and Dry Ash Landfill Phase 2 and placed in onsite lined landfill.
  o February 6, 2020 – Duke submitted revised Table 10–1 of Closure Plan.
  o April 21, 2020 – DWM approved Plan.
  o April 29, 2020 – DEQ issued Final Closure Decision and determination of CAMA compliance.

Rogers Energy Complex – Rutherford County (current coal fired)

8106–INDUS–2009: CCR Landfill (open, lined)
  o June 4, 2019 – PTC application – Determination of Completeness submitted to facility, deemed complete.
  o August 14, 2019 – Design hydrogeologic technical review letter sent.
  o January 22, 2019 – Inspected.
  o January 22, 2020 – Permit to Construct Phases 3 and 4 issued.
  o March 25, 2020 – DWM approved revised Phase 3 Blasting Plan.

All impoundment ash to be excavated and placed in onsite lined landfill.
- February 6, 2020 – Duke submitted revised Table 10–1 of Closure Plan.
- April 29, 2020 – DEQ issued Final Closure Decision and determination of CAMA compliance.

Roxboro Steam Electric Plant – Person County (current coal fired)
- 7302–INDUS–1988: CCR Landfill (open, lined, constructed partially on top of retired ash basin)
  - September 25, 2019 – Inspected.
  - All impoundment ash to be excavated except ash beneath existing/operating landfill 7302 and placed in onsite lined landfill.
  - February 6, 2020 – Duke submitted revised Table 10–1 of Closure Plan.
  - April 17, 2020 – DWM issued approval of Plan.

Sutton Steam Electric Plant – New Hanover County (retired coal–fired plant, converted to combined cycle turbine)
- 6512–INDUS–2016: CCR Landfill (open, lined)
  - July 18, 2019 – Approval of closure turf field test pad.
  - July 10, 2019 – Closure turf field test pad location report received.
  - July 1, 2019 – Thirty-day follow–up report on release received.
  - June 28, 2019 – Inspection of Site as response to coal ash release off of liner.
  - June 27, 2019 – Operations plan – change to contingency plan approved.
  - June 10, 2019 – Change to approved plans received.
  - January 22, 2020 – Inspection.
  - May 1, 2020 – DWM response letter to four leachate release events (Florence, June 2019 rain event, Dorian, Feb 2020 rain event), no further action required.
  - All non–CAMA ash (LOLA – Lay of the Land Area) will be excavated and placed in onsite landfill by August 1, 2020.

LANDFILLS NOT ON DUKE ENERGY FACILITIES

Halifax County Industrial Landfill – Halifax County Westmoreland Partners, Roanoke Valley Energy Plant (retired coal–fired plant, plant closed)
  - August 7, 2019 – Change to approved plans on August 6, 2019 and approval.
  - June 28, 4, May 7, and August 26, 2019 – Ash Monofill and Area 1 Construction/Demolition Landfill closure meetings.
  - November 13, 2019 – Inspection.
  - Coal Ash disposal complete, monofill closure underway.
o August 7, 2019 – Operations Plan – modification to closure plan approved.
o February 24, 2020 – Permit for Closure issued.

**DUKE ENERGY FACILITIES WITHOUT LANDFILLS**

Asheville Steam Electric Plant – Buncombe County (Duke Energy submitted plans to convert to combined cycle turbine to the N.C. Utilities Commission for approval in 2015. Plant to be converted December 31, 2019).

- 1119–INUDE–2020 (proposed)
o July 30, 2019 – Zoning permit submitted.
o April 3, 2019 – Site Suitability submitted.
o April 26, 2019 – Site Suitability comment letter sent.
  ▪ July 15, 2019 – Facility’s first response.
  ▪ September 13, 2019 – Facility’s second response.
o September 13, 2019 – Site Suitability Approval issued.
o June 17, 2019 – PTC application submitted.
o June 28, 2019 – Stockpiled soil sampling analytical data submitted.
o July 12, 2019 – PTC application – Determination of Completeness submitted to facility on,
  ▪ Deemed incomplete.
o September 13, 2019 – PTC application – Determination of Completeness submitted to facility on,
  ▪ Deemed complete.
o May 31, 2019 – Stockpiled Soil Sampling Work Plan received
  ▪ June 19, 2019 – Revision received.
  ▪ June 20, 2019 - Approved.
o May 22, 2019 – Ash Transportation Information Plan revision received.
o August 16, 2019 – Design hydrogeologic technical review letter sent.
  ▪ September 11, 2019 – Facility response submitted.
  ▪ October 7, 2019 – DWM design hydro approval sent.
o September 13, 2019 – Engineering technical review letter sent.
  ▪ October 18, 2019 – Facility response submitted.
o October 31, 2019 – Revised PTC Application, Rev 1 submitted.
o November 10, 2019 – Public Notice issued.
o December 19, 2019 – Public Hearing scheduled.
o January 10, 2020 – Public Comment period ends.
o February 7, 2020 – Permit to Construct and Permit to Operate issued.
o March 3, 2020 – Pre-construction meeting scheduled.
Buck Steam Station – Rowan County (retired coal–fired plant, converted to combined cycle turbine)
- December 31, 2020 – Duke submitted Final Closure Plan
  - All impoundment ash to be excavated and beneficiated through the onsite STAR plant process
  - April 17, 2020 – Duke submitted revised Closure Plan with errata sheets.

Cape Fear Steam Electric Plant – Chatham County (retired coal–fired plant, no electricity production)
- Duke submitted Final Closure Plan December 31, 2020
  - All impoundment ash to be excavated and beneficiated through the STAR plant process.
  - April 17, 2020 – Duke submitted revised Closure Plan with errata sheets.

H.F. Lee Steam Electric Plant – Wayne County (retired coal–fired plant, converted to combined cycle turbine)
- Duke submitted Final Closure Plan December 31, 2020
  - All impoundment ash to be excavated and beneficiated through the STAR plant process.
  - April 17, 2020 – Duke submitted revised Closure Plan with errata sheets.

Riverbend Steam Station – Gaston County (retired coal–fired facility, no electricity)
- July 25, 2019 – Confirmation of Excavation Requirements submitted to facility.
- July 19, 2019 – Ash basin closure soil sampling metals analysis submitted.

Weatherspoon Steam Electric Plant – Robeson County (retired coal–fired facility, no electricity)
- Ash continues to be excavated and trucked to two concrete processing plants in South Carolina.
  - April 17, 2020 – Duke submitted revised Closure Plan with errata sheets.

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.

Brickhaven No. 2, Mine Track “A,” 1910–STRUC–2015 – Chatham County
- July 3, 2019 – Partial closure notification of sub cell 2a, 5b, and 6a submitted.
- September 10, 2019 – Partial closure notification for sub cell 6C submitted.
- June 21, 2019 – Surface water and groundwater assessment request letter to facility.
- September 16, 2019 – DWM Approval of Work Plan.
- September 30, 2019 – Assessment Schedule of Work submitted.
  - October 4, 2019 – DWM concurrence.
• January 23, 2020 – Inspected.

Colon Mine Site – Lee County, 5306–STRUC–2015
• No updates at this time.

Inventory of structural fills greater than 10,000 cy, per Session Law 2014 122:

Groundwater Assessment and Corrective Action

Roxboro Steam Station Gypsum Storage Pad (CCB0003)
• No updates at this time.

Belews Creek Steam Station Structural Fill (CCB0070)
• April 8, 2020 – DWM approved Plan.

Swift Creek in Nash County (CCB0057)
• No updates at this time.

Arthur’s Creek/Henry Long Property in Northampton County (CCB0064)
• July 11, 2019 – DWM site inspection.

HISTORIC ASH MANAGEMENT AREA

6806–INDUS– Eno Power Plant – historic coal ash storage area
• July 31, 2019 – Facility submitted a revised Site Actions Plan.
• August 7, 2019 – DWM issued approval of revised Site Actions Plan.
• April 28, 2020 – Duke submitted request to use updated SOP for monitoring well sampling
• May 1, 2020 – DWM approved updated SOP
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
  - Nothing to report at this time.
- Erosion and Sediment Control and Construction Storm Water
  - GASTO-2020-018
    - 5/8/2020 – Allen Starter Landfill #1 Tree Clearing Approved.
- NPDES Storm Water
  - NCS000546
    - 11/1/19 – Received renewal application
    - 4/30/2020 – Permit expired and is currently administratively continued.

**Asheville Steam Electric Plant**
- Dam Safety
  - BUNCO-088
    - 2/6/20 – Received submittal for repairing a spillway outlet pipe by installation of a cured-in-place lining to correct infiltration for BUNCO-088 (Lake Julian Dam) Scope 8.
      - 04/14/20 – Certificate of Approval to Repair issued.
    - 8/13/19 – Received revised submittal for repairing a concrete ditch leading to the main spillway for BUNCO-088 (Lake Julian Dam) Scope 7 Addendum 1.
      - 8/20/19 – Certificate of Approval to Repair issued.
      - 12/10/19 – As-Built submittal received.
      - 2/13/20 – As-Built inspection performed.
      - 2/21/20 – Certificate of Final Approval to Repair issued.
  - BUNCO-097
    - 3/17/20 – Received revised submittal for the decommissioning of BUNCO-097 (1964 Ash Basin Dam) Scope 8.
      - 3/23/20 – Certificate of Approval to Breach issued.
  - BUNCO-504
    - 3/17/20 – Received revised submittal for the construction of BUNCO-504 (North Stormwater Pond Dam).
      - 3/23/20 – Certificate of Approval to Construct issued.
  - BUNCO-505
• 3/17/20 – Received revised submittal for the construction of BUNCO-505 (South Stormwater Pond Dam).
  • 3/23/20 – Certificate of Approval to Construct issued.
• Erosion and Sediment Control and Construction Storm Water
  o Nothing to report at this time.
• NPDES Storm Water
  o NCS000575
  • 1/29/20 – Received an application for a major modification to add two additional outfalls downslope of new coal ash landfills.

**Belews Creek Steam Station**
• Dam Safety
  o STOKE-116
    • 5/5/20 – Received submittal to remove the inactive riser at the Pine Hall Road embankment for STOKE-116 (Belews Creek Active Ash Basin Dam) Scope 9
  o ROCKI-236
    • 3/24/20 – Received submittal to modify the access and railing at the spillway for ROCKI-236 (Belews Lake Dam) Scope 2
• Erosion and Sediment Control and Construction Storm Water
  o 5/12/20 – An ESC plan was received for Belews Creek Steam Station BC-159 East Pine Hall Road Future Stormwater Reroute and is under review
• NPDES Storm Water
  o Nothing to report at this time.

**Buck Combined Cycle Station**
• Dam Safety
  o ROWAN-047
    • 5/13/20 – Courtesy Notification of Completion of Dewatering received.
  o ROWAN-071
    • 10/17/19 – Received submittal for the installation of 4 piezometers and 1 inclinometer for ROWAN-071 (Buck Ash Basin Divider Dam)
      • 11/14/19 – Certificate of Approval to Install Instrumentation issued
      • 2/20/20 – As-Built submittal received.
      • 2/24/20 – As-Built inspection performed.
      • 3/04/20 – Certificate of Final Approval to Install Instrumentation issued.
• Erosion and Sediment Control and Construction Storm Water
  o ROWAN-2018-008
    • 5/21/2020 – Inspection – Compliant
  o ROWAN-2019-012
    • 5/21/2020 – Inspection – Compliant
  o ROWAN-2019-016
- **5/21/2020 – Inspection – Compliant**
  - ROWAN-2020-003
    - **5/21/2020 – Inspection – Compliant**
    - **5/21/2020 – Inspection – Closed**

- **NPDES Storm Water**
  - Nothing to report at this time.

**Cape Fear Steam Electric Plant**

- **Dam Safety**
  - CHATH-078
    - **3/5/20 – Annual dam safety inspection: Groundcover has been well established on previous vegetation removal project (affiliated sediment project closed)**
    - **5/15/20 – NOI issued.**
  - CHATH-079
    - **3/5/20 – Annual dam safety inspection (consistent with previous findings)**
      No active animal activity observed.
    - **4/27/20 – NOI issued for March inspection.**
  - CHATH-076
    - **3/5/20 – Annual dam safety inspection: some trees have been removed from the dam embankment but additional tree removal required**
    - **5/15/2020 – NOD issued for remaining trees on embankment of dam (continued from previous NOD and dam safety order 16-01)**
  - CHATH-075
    - **7/25/19 – Received submittal for the dam slope repair to restore the design grades to original for CHATH-075 (Cape Fear 1956 Ash Basin Dam) Scope 5.**
      - **10/21/19 – Certificate of Approval to Repair issued.**
      - **03/16/20 – As-Built submittal received.**
    - **1/10/20 – Received revised submittal for the installation of an auxiliary overflow spillway for CHATH-075 (Cape Fear 1956 Ash Basin Dam) Scope 6.**
      - **2/20/20 – Certificate of Approval to Modify issued.**
      - **3/5/20 – Annual dam safety inspection: some trees have been removed, but many still present on embankment**
      - **5/15/20 – NOD issued for trees on dam embankment (continued from previous NOD and dam safety order 16-01)**
  - CHATH-077
    - **1/27/20 – Received revised submittal for the installation of an auxiliary overflow spillway for CHATH-077 (Cape Fear 1970 Ash Basin Dam) Scope 3.**
      - **3/2/20 – Certificate of Approval to Modify issued.**
• Erosion and Sediment Control and Construction Storm Water
  o CHATH-2019-005
    ▪ 3/5/20 – Cape Fear Beneficial Ash Facility inspection; Sediment loss observed to wet lands, resolved in conjunction with Water Resources, inspection report issued 3/24/20
  o CHATH-2019-009
  o CHATH-2018-008-CF-132
    ▪ 3/5/20 – Tree and rootball removal sediment inspection-project complete and closed with this office
  o CHATH-2017-009
    ▪ 3/5/20 – Construction of Groundwater Treatment trench sediment inspection.
    ▪ Project complete and closed with this office.
  o CHATH-2020-008
    ▪ 3/5/20 – Cape Fear 1963/1970 Ash Basin new auxiliary Overflow Spillway sediment inspection- project not started as of this date.

• NPDES Storm Water
  o NCG200530
    ▪ 5/8/20 – Application for the coal ash beneficiation plant received and currently under review.

James E. Rogers Energy Complex (Formerly Cliffside Steam Station)
• Dam Safety
  o CLEVE-050
    ▪ 2/25/19 – Received submittal for the repair and improvement of wet areas adjacent to the toe by placement of a tapered fill toward Suck Creek and installation of 26 Treewells for CLEVE-050 (Cliffside Active Ash Basin Upstream Dam) Scope 2
      • 9/23/19 – Revision Request issued.
      • 4/16/20 – Withdrawal Request submittal received.

• Erosion and Sediment Control and Construction Storm Water
  o CLEVE-2020-014
    ▪ 2/28/2020 – Cliffside Steam Station CCP Landfill Phase III Construction Stock Piles Approved

• NPDES Storm Water
  o NCS000571
    ▪ 3/26/20 – Received renewal application.
    ▪ 9/30/20 – Permit will expire.
**Dan River Combined Cycle 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
  - NCS000572
    - 11/12/19 – Received renewal application
    - 9/30/20 – Permit will expire.

**H.F. Lee Energy Complex**

- Dam Safety
  - WAYNE-009
    - 3/24/20 – Received revised submittal for the removal of vegetation along spillway for WAYNE-009 (HF Lee Cooling Lake Dam) Scope 7.
      - 3/31/20 – Certificate of Approval to Repair issued.
  - WAYNE-022
    - 10/03/19 – Received revised submittal for the removal of two pipes and improvement of the haul road in preparation for beneficial reuse activities for WAYNE-022 (HF Lee Active Ash Basin Dam) Scope 5.
      - 10/31/19 – Certificate of Approval to Repair issued.
      - 4/22/20 – As-Built submittal received.
  - WAYNE-031,032,033
    - 3/17/20 – Received submittal in response to an 9/30/19 NOD to remove existing vegetation and armor the slopes and toes for WAYNE-031,032,033 (HF Lee Inactive Ash Basin #1, #2, #3 Dam) Scope 3, Scope 5, Scope 5.
      - 5/12/20 – Revision Request issued.
- Erosion and Sediment Control and Construction Storm Water
  - Nothing to report at this time
- NPDES Storm Water
  - 4/22/20 – NOI received for the Ash Beneficiation project;
  - 4/24/20 – Request to comment on NOI for the Ash Beneficiation project;
  - 5/8/20 – Commented on the NOI for the NCG200529;
  - 5/11/20 – NCG200529 issued.
  - 5/14/20 – NCG200539 was issued for the H.F. Lee coal ash beneficiation facility.

**Marshall Steam Station**

- Dam Safety
  - CATAW-054
    - 2/4/20 – Received revised submittal for the abandonment of a coal silo discharge pipe for CATAW-054 (Marshall Active Ash Basin Dam) Scope 9.
• 3/6/20 – Certificate of Approval to Repair issued.
• 5/14/20 – As-Built submittal received.

• Erosion and Sediment Control and Construction Storm Water
  o Nothing to report at this time.
• NPDES Storm Water
  o NCS000548
    • 11/4/19 – Received renewal application
    • 4/30/20 – Permit expired and is administratively continued.

**Mayo Steam Electric Plant**
• Dam Safety
  o PERSO-036,037
    • 1/23/20 – Received revised submittal for the dam decommissioning of PERSO-036 (Mayo FGD Settling Pond Dam) Scope 2 and PERSO-037 (Mayo FGD Flush Pond Dam) Scope 2.
      • 3/2/20 – Certificate of Approval to Breach issued.
    • 10/22/19 – Received submittal for the installation of temporary access ramps to allow for excavation of the dam’s contents for PERSO-036 (Mayo FGD Settling Pond Dam) Scope 1 and PERSO-037 (Mayo FGD Flush Pond Dam) Scope 1.
      • 11/6/19 – Certificate of Approval to Repair issued.
      • 2/26/20 – Certificate of Interim Approval to Repair issued.

• Erosion and Sediment Control and Construction Storm Water
  o Nothing to report at this time.
• NPDES Storm Water
  o Nothing to report at this time.

**Riverbend Steam Station**
• Dam Safety
  o Nothing to report at this time.
• Erosion and Sediment Control and Construction Storm Water
  o GASTO-2019-001
    • 2/26/2020 – Inspection – Compliant
  o GASTO-2019-023
    • 2/26/2020 – Inspection – Compliant
• NPDES Storm Water
  o NCS000549 –
    • 4/29/20 – Permit rescinded.
  o NCGNE1371 (Lark Maintenance Facility)
    • 4/29/20 – Permit issued.
Roxboro Steam Electric Plant

- Dam Safety
  - PERSO-033
    - 2/17/20 – Received revised submittal for the investigation of a subsurface pipe near the toe of dam for PERSO-033 (Roxboro East Ash Basin Dam) Scope 4.
    - 2/24/20 – Certificate of Approval to Repair issued.
    - 4/16/20 – Received request for the change of EOR for Phases IV and V of landfill construction.
    - 4/21/20 – Certificate of Approval to Change EOR 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
  - 5/21/20 – Dam inspection, breach for Scope 4 of Sutton 1984 ash basin (NEWHA-005)
- 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
  - Nothing to report at this time.
- NPDES Storm Water
Nothing to report at this time.

W. H. Weatherspoon Power Plant

- Dam Safety
  - ROBES-004
    - 2/25/20 – Received submittal for the refurbishment of a sheet pile intake structure wall for ROBES-004 (Weatherspoon Cooling Lake Dam) Scope 2.
    - 3/24/20 – Received submittal for the abandonment of a former outfall structure and improvements to the existing dike for ROBES-004 (Weatherspoon Cooling Lake Dam) Scope 3.
  - ROBES-009
    - 2/27/20 – Received submittal for the removal of an 8-inch sluice line located near crest of dam for ROBES-009 (Weatherspoon 1979 Ash Basin Dam) Scope 9.

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

- NPDES Storm Water
  - Nothing to report at this time.
<table>
<thead>
<tr>
<th>Plant Name</th>
<th>NAME</th>
<th>NC STATE-ID</th>
<th>DAM STATUS</th>
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<tbody>
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<td>Allen Steam Station</td>
<td>Allen Active Ash Basin Dam</td>
<td>GASTO-061</td>
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<td>Allen Retention Basin Dam</td>
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<td>Asheville Steam Electric Plant</td>
<td>Lake Julian Dam</td>
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<td>Asheville 1982 Ash Pond Dam</td>
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<td>Asheville Steam Electric Plant</td>
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<td>BUNCO-097</td>
<td>ON-GOING DECOMISSION</td>
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<td>BUNCO-101</td>
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<td>Belews Creek Steam Station</td>
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<td>Buck Combined Cycle Station</td>
<td>Buck Ash Basin Divider Dam</td>
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<td>Buck Fuel Containment Dam</td>
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<td>Buck Beneficial Ash Wet Pond</td>
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<td>Cape Fear Steam Electric Plant</td>
<td>Buckhorn Lake Dam</td>
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<td>Cliffside River Dam</td>
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<td>James E. Rogers Energy Complex (Cliffside Steam Station)</td>
<td>Cliffside Inactive Ash Basin #5 Main Dam</td>
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<td>(Cliffside Steam Station)</td>
<td>(Formerly Inactive Ash Basin #1-4 Main Dam)</td>
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<td>(Cliffside Steam Station)</td>
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