



NORTH CAROLINA
Environmental Quality

ROY COOPER
Governor

MICHAEL S. REGAN
Secretary

MEMORANDUM

TO: HOUSE AND SENATE MEMBERS WITH COAL ASH PONDS IN THEIR DISTRICTS

FROM: Joy Hicks
Senior Director of Governmental Affairs and Policy

SUBJECT: Coal Combustion Residuals Surface Impoundment in Member's Districts

DATE: October 1, 2020

Pursuant to GS 130A-309.204(b), "on or before October 1 of each year, the Department shall report to each member of the General Assembly who has a coal combustion residuals surface impoundment in the member's district. This report shall include the location of each impoundment in the member's district, the amount of coal combustion residuals known or believed to be located in the impoundment, the last action taken at the impoundment, and the date of that last action."

Comments concerning the 2020 annual report are as follows:

- All volumes were provided by Duke Energy as of July 31, 2020.
- Coal Ash Ponds are sorted by NC House District and NC Senate District.
- The table "Summary of Last Action Taken" covers many programs and lists multiple actions in summary fashion.

The attached report satisfies this reporting requirement.

If you have any questions or need additional information, please contact me by phone at (919) 707-8618 or via email joy.hicks@ncdenr.gov

cc: Sheila Holman, Assistant Secretary for Environment, NCDEQ
Danny Smith, Director of Water Resources, NCDEQ



North Carolina Department of Environmental Quality

Division of Water Resources

Annual Coal Ash Report to the General Assembly October 1, 2020

This report is submitted to meet the requirements of GS 130A-309.204(b), which requires annual reporting on coal combustion residuals surface impoundments in North Carolina.



Location of Each Ash Pond	
Duke Energy Facility Name	Address
Allen Steam Station	253 Plant Allen Rd., Belmont, NC 28012
Asheville Steam Electric Plant	200 CP&L Dr., Arden, NC 28704
Belews Creek Steam Station	3195 Pine Hall Rd., Belews Creek, NC 27009
Buck Combined Cycle Station	1555 Dukeville Rd., Salisbury, NC 28146
Cape Fear Steam Electric Plant	500 CP&L Rd., Moncure, NC 27559
James E. Rogers Energy Complex (formerly Cliffside Steam Station)	573 Duke Power Rd., Mooresboro, NC 28114
Dan River Combined Cycle Station	900 South Edgewood Rd., Eden, NC 27288
H. F. Lee Energy Complex	1677 Old Smithfield Rd., Goldsboro, NC 27530
Marshall Steam Station	8320 East NC Hwy. 150, Terrell, NC 28682
Mayo Steam Electric Plant	10660 Boston Rd., Roxboro, NC 27573
Riverbend Steam Station	175 Steamplant Station, Mount Holly, NC 28120
Roxboro Steam Electric Plant	1700 Dunnaway Rd., Semora, NC 27343
L. V. Sutton Energy Complex	801 Sutton Steam Plant Rd., Wilmington, NC 28401
W. H. Weatherspoon Power Plant	491 Power Plant Rd., Lumberton, NC 28358

Coal Ash Ponds by North Carolina House Districts				
NC House District	Facility	Ash Pond Designation	Status	Coal Ash Inventory (per Duke as of July 31, 2020)
2	Mayo Steam Electric Plant	Mayo Ash Pond	Inactive	6,600,000
2	Roxboro Steam Electric Plant	Roxboro West Ash Pond	Active	12,974,000
2	Roxboro Steam Electric Plant	Roxboro East Ash Pond (including ash stack)	Inactive	7,074,000
4	H.F. Lee Energy Complex	H.F. Lee Active Ash Pond	Inactive	4,516,000
4	H.F. Lee Energy Complex	H.F. Lee Ash Triangle Pond	Inactive	9,000
10	H.F. Lee Energy Complex	H.F. Lee Ash Pond 1	Inactive	269,000
10	H.F. Lee Energy Complex	H.F. Lee Ash Pond 2	Inactive	529,000
10	H.F. Lee Energy Complex	H.F. Lee Ash Pond 3	Inactive	911,000
18	L.V. Sutton Energy Complex	Sutton 1971 Ash Pond	Inactive	0
18	L.V. Sutton Energy Complex	Sutton 1984 Ash Pond	Inactive	0
46	W. H. Weatherspoon Power Plant	Weatherspoon 1979 Ash Pond	Inactive	1,397,000
54	Cape Fear Steam Electric Plant	Cape Fear 1956 Ash Pond	Inactive	419,000
54	Cape Fear Steam Electric Plant	Cape Fear 1963 Ash Pond	Inactive	859,000
54	Cape Fear Steam Electric Plant	Cape Fear 1970 Ash Pond	Inactive	839,000
54	Cape Fear Steam Electric Plant	Cape Fear 1978 Ash Pond	Inactive	833,000
54	Cape Fear Steam Electric Plant	Cape Fear 1985 Ash Pond	Inactive	2,815,000
65	Dan River Combined Cycle Station	Dan River Active Primary Ash Basin	Inactive	0
65	Dan River Combined Cycle Station	Dan River Active Secondary Ash Basin	Inactive	0
76	Buck Combined Cycle Station	Buck Steam Station Basin 1	Inactive	3,551,000
76	Buck Combined Cycle Station	Buck Steam Station Basin 2	Inactive	1,998,000
76	Buck Combined Cycle Station	Buck Steam Station Basin 3	Inactive	864,000
89	Marshall Steam Station	Marshall Active Ash Basin	Active	16,836,000
91	Belews Creek Steam Station	Belews Creek Active Ash Basin	Active	11,971,000
108	Riverbend Steam Station	Riverbend Primary & Secondary Basins	Inactive	0
109	Allen Steam Station	Allen Active Ash Basin	Active	10,480,000
109	Allen Steam Station	Allen Retired Ash Basin	Inactive	6,152,000



111	James E. Rogers Energy Complex	Cliffside Active Ash Basin	Active	5,038,000
111	James E. Rogers Energy Complex	Cliffside Inactive Ash Basin 1-4	Inactive	0
112	James E. Rogers Energy Complex	Cliffside Inactive Ash Basin #5	Inactive	2,352,000
116	Asheville Steam Electric Plant	Asheville 1964 Ash Pond	Inactive	1,111,000
116	Asheville Steam Electric Plant	Asheville 1982 Ash Pond	Inactive	0

* = Active: receiving either sluiced fly ash or bottom ash, Inactive: NOT receiving sluiced fly ash or bottom ash
 **= Quantities subject to change based on continuing ash production and ash excavation, as applicable. In addition, detailed in-situ field data acquisition and analysis in support of ash basin closure planning may yield revised ash quantities.

Coal Ash Ponds by North Carolina Senate Districts				
NC Senate District	Facility	Ash Pond Designation	Status	Coal Ash Inventory (per Duke as of July 31, 2020)
7	H.F. Lee Energy Complex	H.F. Lee Ash Pond 1	Inactive	269,000
7	H.F. Lee Energy Complex	H.F. Lee Ash Pond 2	Inactive	529,000
7	H.F. Lee Energy Complex	H.F. Lee Ash Pond 3	Inactive	911,000
7	H.F. Lee Energy Complex	H.F. Lee Active Ash Pond	Inactive	4,516,000
7	H.F. Lee Energy Complex	H.F. Lee Ash Triangle Pond	Inactive	9,000
9	L.V. Sutton Energy Complex	Sutton 1971 Ash Pond	Inactive	0
9	L.V. Sutton Energy Complex	Sutton 1984 Ash Pond	Inactive	0
13	W. H. Weatherspoon Power Plant	Weatherspoon 1979 Ash Pond	Inactive	1,397,000
22	Mayo Steam Electric Plant	Mayo Ash Pond	Inactive	6,600,000
22	Roxboro Steam Electric Plant	Roxboro West Ash Pond	Active	12,974,000
22	Roxboro Steam Electric Plant	Roxboro East Ash Pond	Inactive	7,074,000
23	Cape Fear Steam Electric Plant	Cape Fear 1956 Ash Pond	Inactive	419,000
23	Cape Fear Steam Electric Plant	Cape Fear 1963 Ash Pond	Inactive	859,000
23	Cape Fear Steam Electric Plant	Cape Fear 1970 Ash Pond	Inactive	839,000
23	Cape Fear Steam Electric Plant	Cape Fear 1978 Ash Pond	Inactive	833,000
23	Cape Fear Steam Electric Plant	Cape Fear 1985 Ash Pond	Inactive	2,815,000
30	Dan River Combined Cycle Station	Dan River Active Primary Ash Basin	Inactive	0
30	Dan River Combined Cycle Station	Dan River Active Secondary Ash Basin	Inactive	0
30	Belews Creek Steam Station	Belews Creek Active Ash Basin	Active	11,971,000
33	Buck Combined Cycle Station	Buck Steam Station Basin 1	Inactive	3,551,000
33	Buck Combined Cycle Station	Buck Steam Station Basin 2	Inactive	1,998,000
33	Buck Combined Cycle Station	Buck Steam Station Basin 3	Inactive	864,000
42	Marshall Steam Station	Marshall Active Ash Basin	Active	16,836,000
43	Allen Steam Station	Allen Active Ash Basin	Active	10,480,000
43	Allen Steam Station	Allen Retired Ash Basin	Inactive	6,152,000
44	Riverbend Steam Station	Riverbend Primary & Secondary Basins	Inactive	0
44	James E. Rogers Energy Complex	Cliffside Active Ash Basin	Active	5,038,000
44	James E. Rogers Energy Complex	Cliffside Inactive Ash Basin 1-4	Inactive	0
47	James E. Rogers Energy Complex	Cliffside Inactive Ash Basin #5	Inactive	2,352,000
48	Asheville Steam Electric Plant	Asheville 1964 Ash Pond	Inactive	1,111,000
48	Asheville Steam Electric Plant	Asheville 1982 Ash Pond	Inactive	0

* = Active: receiving either sluiced fly ash or bottom ash, Inactive: NOT receiving sluiced fly ash or bottom ash
 **= Quantities subject to change based on continuing ash production and ash excavation, as applicable. In addition, detailed in-situ field data acquisition and analysis in support of ash basin closure planning may yield revised ash quantities.



Summary of Last Action Taken		
Ash Pond Designation	Last Action Taken	Date of Last Action Taken
Allen Active Ash Basin	<u>Division of Water Resources</u> 1. Site assessment and corrective action activities 2. NPDES Major permit modification issued <u>Division of Energy, Mineral, and Land Resources</u> 3. Received submittal for the removal of four 18-inch sluice lines buried near the crest of north dike	1. In progress 2. February 7, 2020 3. June 10, 2020
Allen Retired Ash Basin	<u>Division of Water Resources</u> 1. Site assessment and corrective activities <u>Division of Energy, Mineral, and Land Resources</u> 2. Outlet pipe repair 3. Piezometer installations	1. In progress 2. Complete 3. Complete
Asheville 1982 Ash Pond	<u>Division of Water Resources</u> 1. Site assessment activities 2. NPDES major modification was issued and became effective 3. Basin excavated <u>Division of Energy, Mineral, and Land Resources</u> 4. Dam decommissioning	1. In progress 2. May 1, 2020 3. February 2, 2018 4. Complete
Asheville 1964 Ash Pond	<u>Division of Water Resources</u> 1. Site assessment activities 2. Basin under excavation <u>Division of Energy, Mineral, and Land Resources</u> 3. Certificate of Approval to Breach issued.	1. In progress 2. In progress 3. March 23, 2020
Belews Creek Active Ash Basin	<u>Division of Water Resources</u> 1. Site assessment and corrective action activities 2. NPDES permit effective <u>Division of Energy, Mineral, and Land Resources</u> 3. Received submittal to remove the inactive riser at the Pine Hall Road embankment	1. In progress 2. March 25, 2019 3. May 5, 2020
Buck Steam Station Basin 1	<u>Division of Water Resources</u> 1. Site assessment activities 2. NPDES major modification became effective <u>Division of Energy, Mineral, and Land Resources</u> 3. Certificate of Final Approval to Install Instrumentation issued for piezometer wells.	1. In progress 2. August 1, 2020 3. March 4, 2020
Buck Steam Station Basin 2	<u>Division of Water Resources</u> 1. Site assessment activities 2. NPDES major modification became effective <u>Division of Energy, Mineral, and Land Resources</u> 3. Courtesy Notification of Completion of Dewatering received	1. In progress 2. August 1, 2020 3. May 13, 2020
Buck Steam Station Basin 3	<u>Division of Water Resources</u> 1. Site assessment activities 2. NPDES major modification became effective <u>Division of Energy, Mineral, and Land Resources</u> 3. Courtesy Notification of Completion of Dewatering received	1. In progress 2. August 1, 2020 3. May 13, 2020
Cape Fear 1956 Ash Pond (Inactive)	<u>Division of Water Resources</u> 1. Site assessment activities <u>Division of Energy, Mineral, and Land Resources</u> 2. Received submittal for the dam slope repair to restore the design grades to original	1. In progress 2. July 25, 2019



Cape Fear 1963 Ash Pond (Inactive)	<u>Division of Water Resources</u> 1. Site assessment activities <u>Division of Energy, Mineral, and Land Resources</u> 2. Received request for a one-year extension to remove vegetation from dams	1. In progress 2. October 14, 2019
Cape Fear 1970 Ash Pond (Inactive)	<u>Division of Water Resources</u> 1. Site assessment activities <u>Division of Energy, Mineral, and Land Resources</u> 2. Certificate of Approval to Modify for the installation of an auxiliary overflow spillway	1. In progress 2. March 2, 2020
Cape Fear 1978 Ash Pond	<u>Division of Water Resources</u> 1. Site assessment activities 2. NPDES major modification submitted <u>Division of Energy, Mineral, and Land Resources</u> 3. Vegetation removal 4. Dewatering rate modification	1. In progress 2. July 17, 2020 3. Complete 4. Complete
Cape Fear 1985 Ash Pond	<u>Division of Water Resources</u> 1. Site assessment activities 2. NPDES major modification submitted <u>Division of Energy, Mineral, and Land Resources</u> 3. Received submittal for the widening of the existing north access ramp	1. In progress 2. July 17, 2020 3. July 21, 2020
Cliffside Active Ash Basin	<u>Division of Water Resources</u> 1. Site assessment and corrective action activities 2. NPDES Permit on hold <u>Division of Energy, Mineral, and Land Resources</u> 3. Withdrawal Request submittal for repair plans for area of wetness	1. In progress 2. In progress 3. April 16, 2020
Cliffside Inactive Ash Basin #5	<u>Division of Water Resources</u> 1. Site assessment and corrective action activities <u>Division of Energy, Mineral, and Land Resources</u> 2. Outlet pipe and riser repair	1. In progress 2. Complete
Cliffside Inactive Ash Basin #1-4	<u>Division of Water Resources</u> 1. Site assessment and corrective action activities 2. Basins excavated <u>Division of Energy, Mineral, and Land Resources</u> 3. Dam modification; proposed construction of a wastewater storage basin within the dam	1. In progress 2. August 10, 2018 3. Complete
Dan River Active Primary Ash Basin	<u>Division of Water Resources</u> 1. Site assessment activities 2. NPDES permit effective 3. Basin excavated <u>Division of Energy, Mineral, and Land Resources</u> 4. Dam decommissioning (sequence A and C)	1. In progress 2. February 1, 2019 3. May 20, 2019 4. In progress
Dan River Active Secondary Ash Basin	<u>Division of Water Resources</u> 1. Site assessment activities 2. NPDES permit effective 3. Basin excavated <u>Division of Energy, Mineral, and Land Resources</u> 4. Dam decommissioning (sequence B and C)	1. In progress 2. February 1, 2019 3. May 20, 2019 4. In progress
H.F. Lee Ash Pond 1 (Inactive)	<u>Division of Water Resources</u> 1. Site assessment activities <u>Division of Energy, Mineral, and Land Resources</u> 2. Revision Request issued for submittal in response to an 9/30/19 NOD to remove existing vegetation and armor the slopes and toes	1. In progress 2. March 17, 2020



H.F. Lee Ash Pond 2 (Inactive)	<u>Division of Water Resources</u> 1. Site assessment activities <u>Division of Energy, Mineral, and Land Resources</u> 2. Revision Request issued for submittal in response to an 9/30/19 NOD to remove existing vegetation and armor the slopes and toes	1. In progress 2. March 17, 2020
H.F. Lee Ash Pond 3 (Inactive)	<u>Division of Water Resources</u> 1. Site assessment activities <u>Division of Energy, Mineral, and Land Resources</u> 2. Revision Request issued for submittal in response to an 9/30/19 NOD to remove existing vegetation and armor the slopes and toes	1. In progress 2. March 17, 2020
H.F. Lee Active Ash Pond	<u>Division of Water Resources</u> 1. Site assessment activities 2. Major modification effective <u>Division of Energy, Mineral, and Land Resources</u> 3. Certificate of Final Approval to Repair issued.	1. In progress 2. April 1, 2020 3. June 5, 2020
H.F. Lee Ash Triangle Pond	<u>Division of Water Resources</u> 1. Site assessment activities 2. Basin under excavation <u>Division of Energy, Mineral, and Land Resources</u> 3. Dam decommissioning	1. In progress 2. In progress 3. Complete
Marshall Active Ash Basin	<u>Division of Water Resources</u> 1. Site assessment and corrective action activities 2. NPDES major permit modification application received <u>Division of Energy, Mineral, and Land Resources</u> 3. Certificate of Final Approval to Repair issued	1. In progress 2. April 29, 2020 3. June 24, 2020
Mayo Ash Pond	<u>Division of Water Resources</u> 1. Site assessment and corrective action activities 2. NPDES permit effective <u>Division of Energy, Mineral, and Land Resources</u> 3. Received submittal for the request of re-classifying the two subject dams due to the removal of all FGD solids, liquids, and liner.	1. In progress 2. August 1, 2018 3. June 8, 2020
Riverbend Active Ash Basin 1	<u>Division of Water Resources</u> 1. Site assessment activities 2. NPDES renewal application received 3. Basin excavated <u>Division of Energy, Mineral, and Land Resources</u> 4. Dam decommissioning	1. In progress 2. August 27, 2019 3. April 22, 2019 4. In progress
Riverbend Active Ash Basin 2	<u>Division of Water Resources</u> 1. Site assessment activities 2. NPDES renewal application received 3. Basin excavated <u>Division of Energy, Mineral, and Land Resources</u> 4. – Completion of Dewatered Secondary Ash Basin Dam, Courtesy Notification received	1. In progress 2. August 27, 2019 3. April 22, 2019 4. January 8, 2020
Roxboro West Ash Pond	<u>Division of Water Resources</u> 1. Site assessment and corrective action activities 2. NPDES permit effective <u>Division of Energy, Mineral, and Land Resources</u> 3. Certificate of Approval to Breach issued	1. In progress 2. July 1, 2020 3. June 17, 2020
Roxboro East Ash Pond	<u>Division of Water Resources</u> 1. Site assessment and corrective action activities 2. NPDES permit effective <u>Division of Energy, Mineral, and Land Resources</u>	1. In progress 2. July 1, 2020 3. July 17, 2020



	3. Certificate of Final Approval to Repair issued	
Sutton 1971 Ash Pond	<u>Division of Water Resources</u> 1. Site assessment and corrective action activities 2. NPDES permit effective 3. Basin excavated <u>Division of Energy, Mineral, and Land Resources</u> 4. Certificate of Final Approval to Breach issued	1. In progress 2. July 1, 2020 3. May 24, 2019 4. October 10, 2019
Sutton 1984 Ash Pond	<u>Division of Water Resources</u> 1. Site assessment and corrective action activities 2. NPDES permit effective 3. Basin under excavation <u>Division of Energy, Mineral, and Land Resources</u> 4. Certificate of Final Approval to Breach issued.	1. In progress 2. July 1, 2020 3. June 24, 2019 4. May 21, 2020
Weatherspoon 1979 Ash Pond	<u>Division of Water Resources</u> 1. Site assessment activities 2. NPDES permit effective 3. Basin under excavation <u>Division of Energy, Mineral, and Land Resources</u> 4. Certificate of Approval to Repair issued	1. In progress 2. November 1, 2018 3. In progress 4. June 29, 2020

