



PAT MCCRORY
Governor

DONALD R. VAN DER VAART
Secretary

MEMORANDUM

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

FROM: Mollie Young, Director of Legislative Affairs, NCDEQ

SUBJECT: Coal Combustion Residuals Surface Impoundment in Member Districts

DATE: September 30, 2016

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.”*

Upon review, the changes between the 2016 annual report and the 2015 annual report are as follows:

- Requirement reference changes from Session Law to Statute.
- Removal of Aerial Photographs of each site.

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 e-mail at mollie.young@ncdenr.gov.

cc: Tom Reeder, Assistant Secretary for Environment, NCDEQ
Jay Zimmerman, Director of Water Resources, NCDEQ
Caroline Daly, Policy Analyst, Office of the Governor
Jeff Warren, Policy Advisor, Office of the Senate President Pro Tem
Mitch Gillespie, Policy Advisor, Office of the House Speaker
Jeff Hudson, Legislative Analysis Division, NCGA



State of North Carolina | Environmental Quality

1601 Mail Service Center | Raleigh, North Carolina 27699-1611

919-707-8600

North Carolina Department of Environment Quality

Division of Water Resources

Annual Coal Ash Report to the General Assembly *October 1, 2016*

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.

Coal Ash Ponds by NC House Districts				
NC House District	Facility	Ash Pond Name	Status*	Ash inventory as per Duke (tons)**
2	Mayo Power Station	Mayo Ash Pond	Active	6,980,000
	Roxboro Power Station	Roxboro West Ash Pond	Active	34,620,000
	Roxboro Power Station	Roxboro East Ash Pond	Inactive	
4	Lee Power Station	H.F. Lee Active Ash Pond	Inactive	5,960,000
	Lee Power Station	H.F. Lee Ash Polishing Pond	Inactive	
10	Lee Power Station	H.F. Lee Ash Pond 1 (Inactive)	Inactive	
	Lee Power Station	H.F. Lee Ash Pond 2 (Inactive)	Inactive	
	Lee Power Station	H.F. Lee Ash Pond 3 (Inactive)	Inactive	
18	Sutton Power Station	Sutton 1971 Ash Pond	Inactive	
	Sutton Power Station	Sutton 1984 Ash Pond	Inactive	
46	Weatherspoon Power Station	Weatherspoon 1979 Ash Pond	Inactive	2,450,000
54	Cape Fear Power Station	Cape Fear 1956 Ash Pond (Inactive)	Inactive	5,730,000
	Cape Fear Power Station	Cape Fear 1963 Ash Pond (Inactive)	Inactive	
	Cape Fear Power Station	Cape Fear 1970 Ash Pond (Inactive)	Inactive	
	Cape Fear Power Station	Cape Fear 1978 Ash Pond	Inactive	
	Cape Fear Power Station	Cape Fear 1985 Ash Pond	Inactive	
65	Dan River Power Station	Dan River Active Primary Ash Basin	Inactive	2,960,000
	Dan River Power Station	Dan River Active Secondary Ash Basin	Inactive	
76	Buck Power Station	Buck Steam Station Basin 1	Inactive	5,310,000
	Buck Power Station	Buck Steam Station Basin 2	Inactive	
	Buck Power Station	Buck Steam Station Basin 3	Inactive	
89	Marshall Steam Station	Marshall Active Ash Basin	Active	30,890,000
91	Belews Creek Steam Station	Belews Creek Active Ash Basin	Active	19,760,000
108	Riverbend Power Station	Riverbend Active Ash Basin 1	Inactive	5,180,000
	Riverbend Power Station	Riverbend Active Ash Basin 2	Inactive	
109	Allen Power Station	Allen Active Ash Basin	Active	19,270,000
	Allen Power Station	Allen Retired Ash Basin	Inactive	
111	Cliffside Power Station	Cliffside Active Ash Basin	Active	9,890,000
	Cliffside Power Station	Cliffside Inactive Ash Basin 1-4	Inactive	
112	Cliffside Power Station	Cliffside Inactive Ash Basin #5	Inactive	
116	Asheville	Asheville 1982 Ash Pond	Inactive	6,280,000
	Asheville	Asheville 1964 Ash Pond	Active	

162,620,000

* = 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. Estimated Ash Volumes Provided by Duke Energy Website: <https://www.duke-energy.com/pdfs/duke-energy-ash-metrics.pdf>

Coal Ash Ponds by NC Senate Districts				
NC Senate District	Facility	Ash Pond Name	Status*	Ash inventory as per Duke (tons)**
7	Lee Power Station	H.F. Lee Ash Pond 1 (Inactive)	Inactive	5,960,000
	Lee Power Station	H.F. Lee Ash Pond 2 (Inactive)	Inactive	
	Lee Power Station	H.F. Lee Ash Pond 3 (Inactive)	Inactive	
	Lee Power Station	H.F. Lee Active Ash Pond	Inactive	
	Lee Power Station	H.F. Lee Ash Polishing Pond	Inactive	
9	Sutton Power Station	Sutton 1971 Ash Pond	Inactive	7,340,000
	Sutton Power Station	Sutton 1984 Ash Pond	Inactive	
13	Weatherspoon Power Station	Weatherspoon 1979 Ash Pond	Inactive	2,450,000
22	Mayo Power Station	Mayo Ash Pond	Active	6,980,000
	Roxboro Power Station	Roxboro West Ash Pond	Active	34,620,000
	Roxboro Power Station	Roxboro East Ash Pond	Inactive	
23	Cape Fear Power Station	Cape Fear 1956 Ash Pond (Inactive)	Inactive	5,730,000
	Cape Fear Power Station	Cape Fear 1963 Ash Pond (Inactive)	Inactive	
	Cape Fear Power Station	Cape Fear 1970 Ash Pond (Inactive)	Inactive	
	Cape Fear Power Station	Cape Fear 1978 Ash Pond	Inactive	
	Cape Fear Power Station	Cape Fear 1985 Ash Pond	Inactive	
26	Dan River Power Station	Dan River Active Primary Ash Basin	Inactive	2,960,000
	Dan River Power Station	Dan River Active Secondary Ash Basin	Inactive	
30	Belews Creek Steam Station	Belews Creek Active Ash Basin	Active	19,760,000
34	Buck Power Station	Buck Steam Station Basin 1	Inactive	5,310,000
	Buck Power Station	Buck Steam Station Basin 2	Inactive	
	Buck Power Station	Buck Steam Station Basin 3	Inactive	
42	Marshall Steam Station	Marshall Active Ash Basin	Active	30,890,000
43	Allen Power Station	Allen Active Ash Basin	Active	19,270,000
	Allen Power Station	Allen Retired Ash Basin	Inactive	
44	Riverbend Power Station	Riverbend Active Ash Basin 1	Inactive	5,180,000
	Riverbend Power Station	Riverbend Active Ash Basin 2	Inactive	
46	Cliffside Power Station	Cliffside Active Ash Basin	Active	9,890,000
	Cliffside Power Station	Cliffside Inactive Ash Basin 1-4	Inactive	
47	Cliffside Power Station	Cliffside Inactive Ash Basin #5	Inactive	
48	Asheville	Asheville 1982 Ash Pond	Inactive	6,280,000
	Asheville	Asheville 1964 Ash Pond	Active	

162,620,000

* = 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. Estimated Ash Volumes Provided by Duke Energy Website: <https://www.duke-energy.com/pdfs/duke-energy-ash-metrics.pdf>

		Summary of Last Action Taken		
NC House District	NC Senate District	Ash Pond Name	Last action taken	Date of last action
109	43	Allen Active Ash Basin	Water Supply Well Survey, Groundwater Assessment	In progress
		Allen Retired Ash Basin	Water Supply Well Survey, Groundwater Assessment	In progress
116	48	Asheville 1982 Ash Pond	Water Supply Well Survey, Groundwater Assessment	In progress
		Asheville 1964 Ash Pond	Water Supply Well Survey, Groundwater Assessment	In progress
91	30	Belews Creek Active Ash Basin	Water Supply Well Survey, Groundwater Assessment	In progress
76	34	Buck Steam Station Basin 1	Water Supply Well Survey, Groundwater Assessment	In progress
		Buck Steam Station Basin 2	Water Supply Well Survey, Groundwater Assessment	In progress
		Buck Steam Station Basin 3	Water Supply Well Survey, Groundwater Assessment	In progress
54	23	Cape Fear 1956 Ash Pond (Inactive)	Water Supply Well Survey, Groundwater Assessment	In progress
		Cape Fear 1963 Ash Pond (Inactive)	Water Supply Well Survey, Groundwater Assessment	In progress
		Cape Fear 1970 Ash Pond (Inactive)	Water Supply Well Survey, Groundwater Assessment	In progress
		Cape Fear 1978 Ash Pond	Water Supply Well Survey, Groundwater Assessment	In progress
		Cape Fear 1985 Ash Pond	Water Supply Well Survey, Groundwater Assessment	In progress
111	46	Cliffside Active Ash Basin	Water Supply Well Survey, Groundwater Assessment	In progress
112	47	Cliffside Inactive Ash Basin #5	Water Supply Well Survey, Groundwater Assessment	In progress
111	46	Cliffside Inactive Ash Basin 1-4	Water Supply Well Survey, Groundwater Assessment	In progress
65	26	Dan River Active Primary Ash Basin	Water Supply Well Survey, Groundwater Assessment	In progress
		Dan River Active Secondary Ash Basin	Water Supply Well Survey, Groundwater Assessment	In progress
10	7	H.F. Lee Ash Pond 1 (Inactive)	Water Supply Well Survey, Groundwater Assessment	In progress
		H.F. Lee Ash Pond 2 (Inactive)	Water Supply Well Survey, Groundwater Assessment	In progress
		H.F. Lee Ash Pond 3 (Inactive)	Water Supply Well Survey, Groundwater Assessment	In progress
4		H.F. Lee Active Ash Pond	Water Supply Well Survey, Groundwater Assessment	In progress
		H.F. Lee Ash Polishing Pond	Water Supply Well Survey, Groundwater Assessment	In progress
89	42	Marshall Active Ash Basin	Water Supply Well Survey, Groundwater Assessment	In progress
2	22	Mayo Ash Pond	Water Supply Well Survey, Groundwater Assessment	In progress
108	44	Riverbend Active Ash Basin 1	Water Supply Well Survey, Groundwater Assessment	In progress
		Riverbend Active Ash Basin 2	Water Supply Well Survey, Groundwater Assessment	In progress
2	22	Roxboro West Ash Pond	Water Supply Well Survey, Groundwater Assessment	In progress
		Roxboro East Ash Pond	Water Supply Well Survey, Groundwater Assessment	In progress
18	9	Sutton 1971 Ash Pond	Water Supply Well Survey, Groundwater Assessment	In progress
		Sutton 1984 Ash Pond	Water Supply Well Survey, Groundwater Assessment	In progress
46	13	Weatherspoon 1979 Ash Pond	Water Supply Well Survey, Groundwater Assessment	In progress

**DEMLR Erosion and Sedimentation Control Program
Summary of Last Action Taken**

Ash Pond Name	Last action taken	Date of last action
Allen Active Ash Basin	Allen Storm Sewer Subsurface Exploration (CCR Wells) Approval	3/16/2016
Allen Retired Ash Basin	Allen Storm Sewer Subsurface Exploration (CCR Wells) Approval	3/16/2016
Asheville 1982 Ash Pond	Decommissioning Approval	7/21/2016
Asheville 1964 Ash Pond	Ash Pond Dam Grading Approval	11/30/2015
Belews Creek Active Ash Basin	Belews Creek Steam Station Exp Data Gap Wells Approval	5/25/2016
Buck Steam Station Basin 1	Buck Steam Station Ash Basin Improvements Approval	5/23/2016
Buck Steam Station Basin 2	Buck Steam Station Ash Basin Improvements Approval	5/23/2016
Buck Steam Station Basin 3	Buck Steam Station Ash Basin Improvements Approval	5/23/2016
Cape Fear 1956 Ash Pond (Inactive)	N/A	
Cape Fear 1963 Ash Pond (Inactive)	N/A	
Cape Fear 1970 Ash Pond (Inactive)	N/A	
Cape Fear 1978 Ash Pond	N/A	
Cape Fear 1985 Ash Pond	N/A	
Cliffside Active Ash Basin	N/A	
Cliffside Inactive Ash Basin #5	N/A	
Cliffside Inactive Ash Basin 1-4	N/A	
Dan River Active Primary Ash Basin	N/A	
Dan River Active Secondary Ash Basin	N/A	
H.F. Lee Ash Pond 1 (Inactive)	Groundwater Assessment Plan Approval	5/19/2016
H.F. Lee Ash Pond 2 (Inactive)	N/A	
H.F. Lee Ash Pond 3 (Inactive)	Groundwater Assessment Plan Approval	
H.F. Lee Active Ash Pond	Plan Vegetative Slope Stabilization at Active Ash Pond Approval	8/18/2015
H.F. Lee Ash Polishing Pond	N/A	
Marshall Active Ash Basin	Vegetation Maintenance for Closed Ash Landfill Phase I & II Approval	4/1/2016
Mayo Ash Pond	Seepage Collection Plan Approval	7/1/2016
Riverbend Active Ash Basin 1	N/A	
Riverbend Active Ash Basin 2	N/A	
Roxboro West Ash Pond	Roxboro Ash Pond H & H Improvement Project	12/6/2015
Roxboro East Ash Pond	Roxboro Ash Pond H & H Improvement Project	12/6/2015
Sutton 1971 Ash Pond	N/A	
Sutton 1984 Ash Pond	N/A	
Weatherspoon 1979 Ash Pond	Vegetation removal and spillway modification	6/25/2016

**DEMLR Dam Safety Program
Summary of Last Action Taken**

Ash Pond Name	Last action taken	Date of last action
Allen Active Ash Basin	As-Built Inspection Completed on Scope 4 Repair	7/12/2016
Allen Retired Ash Basin	Final Approval Scope 4 Repair	6/10/2016
Asheville 1982 Ash Pond	Approval to Breach in preparation for decommissioning	7/1/2016
Asheville 1964 Ash Pond	Proceed without approval needed for ash stacking	5/31/2016
Belews Creek Active Ash Basin	Reviewing Scope 2 & 4 As-Built Plan submittal	5/4/2016
Buck Steam Station Basin 1	Final Approval, Scope 1 Repair	6/22/2016
Buck Steam Station Basin 2	Acceptance of Withdrawal of Application	6/8/2016
Buck Steam Station Basin 3	Final Approval Scope 2	6/22/2016
Cape Fear 1956 Ash Pond (Inactive)	As-Built Inspection Completed on Scope 1	6/16/2016
Cape Fear 1963 Ash Pond (Inactive)	Acceptance of Withdrawal of Scope 1	8/23/2016
Cape Fear 1970 Ash Pond (Inactive)	As-Built Inspection Scope 1	6/16/2016
Cape Fear 1978 Ash Pond	Inspection for Scope 1 Addendum 1	8/3/2016
Cape Fear 1985 Ash Pond	As-Built Inspection Scope 5	8/3/2016
Cliffside Active Ash Basin	Scope 2 Final Approval	6/24/2016
Cliffside Inactive Ash Basin #5	Scope 3 Approval to Repair	8/8/2016
Cliffside Inactive Ash Basin 1-4	Final Approval for Scopes 1, 2 and 4	6/23/2016
Dan River Active Primary Ash Basin	Acceptance of Withdrawal of Application Scope 7	5/31/2016
Dan River Active Secondary Ash Basin	Approval to Proceed without Approval needed on Scope 4	5/16/2016
H.F. Lee Ash Pond 1 (Inactive)	Notice to proceed as exempt structure	5/17/2015
H.F. Lee Ash Pond 2 (Inactive)	Notice to proceed as exempt structure	5/17/2015
H.F. Lee Ash Pond 3 (Inactive)	Notice to proceed as exempt structure	5/17/2015
H.F. Lee Active Ash Pond	Notice of Deficiency on Scope 2	6/10/2016
H.F. Lee Ash Polishing Pond	N/A	
Marshall Active Ash Basin	Approval to Repair Scope 7	8/3/2016
Mayo Ash Pond	Final Approval of Scope 2	6/13/2016
Riverbend Active Ash Basin 1	Approval to Breach on Scope 2 Dam Decommissioning	6/16/2016
Riverbend Active Ash Basin 2	Final Approval of Scope 3	6/27/2016
Roxboro West Ash Pond	As-Built Inspection Scope 2	8/2/2016
Roxboro East Ash Pond	Approval to Repair Scope 2	6/3/2016
Sutton 1971 Ash Pond	Approval to Repair Scope 1	9/4/2015
Sutton 1984 Ash Pond	Approval to Repair Scope 3	11/5/2015
Weatherspoon 1979 Ash Pond	Approval of Engineer of Record	8/25/2016