



North Carolina Department of Environment and Natural Resources

Pat McCrory
Governor

Donald R. van der Vaart
Secretary

July 2, 2015

MEMORANDUM

TO: ENVIRONMENTAL REVIEW COMMISSION
The Honorable Brent Jackson, Co-Chairman
The Honorable Mike Hager, Co-Chairman

FROM: Matt Dockham
Director of Legislative Affairs

SUBJECT: Quarterly Report on Operations, Activities, Programs and Progress Relating to
Coal Combustion Residuals Surface Impoundments

DATE: July 2, 2015

Pursuant to S.L. 2014-122, section 3(a), the Department shall submit quarterly written reports... on its operations, activities, programs, and progress with respect to its obligations under this Part concerning all coal combustion residuals surface impoundments. 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 matthew.dockham@ncdenr.gov.

cc: Tom Reeder, Assistant Secretary for Environment, NCDENR
Tracy Davis, Director, Division of Energy, Land, and Mineral Resources, NCDENR
Jay Zimmerman, Director, Division of Water Resources, NCDENR

North Carolina Department of Environment and Natural Resources

Division of Water Resources

Quarterly Report to the Environmental Review Commission on Operations, Activities, Programs and Progress Relating to Coal Combustion Residuals Surface Impoundments

July 1, 2015

This report is submitted to meet the requirements of Senate Bill 729, Section 3(a) which requires quarterly reporting on DENR operations, activities, programs and progress relating to coal combustion residuals surface impoundments

This report is intended to provide an update on activities that have occurred since the submission of the last Quarterly Report on April 1, 2015.

For organizational purposes, the information contained within is divided into the following sections:

1. Coal Ash Tonnage in North Carolina
2. Groundwater-Related Activities
3. Surface Water Discharge-Related Activities
4. Ash Pond Closure-Related Activities
5. Dan River Sampling Update

Further information related to Duke Energy's GAP approval, drinking water surveys, NPDES permit modification and renewal, and other related issues can be found on DWR's webpage for coal ash-related information:

<http://portal.ncdenr.org/web/wq/hot-topics/coalashregulation>. The website is regularly updated and includes a great deal of data and information on coal ash regulation and permitting, groundwater, surface water, beneficial reuse and information concerning the Dan River spill.

1. Coal Ash Tonnage in North Carolina

Past reports from the North Carolina Department of Environment and Natural Resource (DENR) have reported the estimated the coal ash tonnage in North Carolina at Duke Energy's 14 facilities at 107,889,000 tons. While this figure is still a valid approximation of the tonnage of coal ash in the actual coal ash impoundments at the 14 coal ash facilities, Duke has subsequently reported an additional amount of coal ash at their facilities, which is not located in the ash basins, or impoundments. This additional coal ash is often buried at other sites within the facilities, in what are termed ash pits, or cinder pits. The ash buried in this manner most commonly is ash that originated at the facility before the wet disposal of coal ash was introduced, or it is material that was dredged from the ash ponds in order to extend the service life of these ponds. This additional ash, outside of the impoundments, is approximated to be about 43,350,000 tons. When this additional ash is added to the ash in the coal ash basins, the total coal ash in North Carolina is approximately 151,239,000 tons.

2. Groundwater-Related Activities

Drinking Water Supply Well Survey

Sampling of the water supply wells within 1,000 feet of compliance boundaries began in January 2015. Sampling of the water supply wells within 1,500 feet began in April 2015. A full explanation of the procedures to be utilized in this sampling

can be found at the following webpage:

<http://portal.ncdenr.org/web/wellwatertesting>.

To evaluate potential health concerns associated with the sample results, DWR submits the laboratory results to the Division of Public Health, Epidemiology Section, Occupational and Environmental Epidemiology Branch (OEEB) for a health risk evaluation (HRE). The laboratory results along with the HRE are then sent to the well owner. As of the June 5, 2015, 203 well owners were sent their results along with the health risk evaluation. A subset of these wells (101 wells) will be resampled due to a recommendation from the Department of Public Health for tests using lower detection limits for Hexavalent Chromium and Vanadium.

In April 2015, DWR initiated a limited study of concentrations of parameters in the vicinity of three coal ash facilities: Allen, Buck & Marshall. The areas selected for study are situated at locales positioned across surface and groundwater divides at least a mile from the facilities and along the same geologic units that underlie the facilities. Letters were sent in late April to selected well owners in these areas to ask if they would like their wells sampled as part of the study. DWR contracted with PACE Analytical Services, Inc. (Huntersville, NC) to perform the sampling. Twenty wells have been sampled as of June 5, 2015, with give wells left to sample.

Groundwater Assessment Plans (GAPs)

To date, conditional letters of approval for the 14 coal ash facilities have been sent to Duke Energy. All approvals have been finalized and sent to Duke Energy as of mid-March 2015. For each approved plan, the Coal Ash Management Act (CAMA) requires implementation within 10 days and a full report within 180 days from the approval date. Groundwater Assessment Reports are expected to be submitted to the Division starting in August 2015.

Other Groundwater-related activities

On June 9, DWR issued Duke Energy a notice of regulatory requirement after recent tests showed high levels of boron, a recognized indicator of coal ash contamination, in monitoring wells at or beyond the facility's compliance boundary as well as in three water supply wells approximately half a mile from the facility. The utility has until July 9 to control and prevent further migration of coal ash contaminants and submit a plan to monitor for the effectiveness of its actions. Failure to meet the state's requirements may result in a fine.

3. Surface Water Discharge-Related Activities

Modification of Existing National Pollutant Discharge Eliminations System (NPDES Permits)

DENR is proposing modifications to existing permits for wastewater (NPDES) discharges as part of the permit renewal process for the Allen, Marshall and Riverbend coal ash facilities. The department has placed the draft permits for the Allen, Riverbend and Marshall plants on its website and is seeking the public's review and comment on them. The draft permits can be viewed here: <http://portal.ncdenr.org/web/guest/duke-npdes-permits>.

As part of the public feedback process, a public hearing for Allen, Marshall, and Riverbend steam stations was held on April 8 and the comment period closed on May 5, 2015. DWR has now reviewed the public comments and completed the Hearing Officer Report. The Riverbend permit was modified to address the Hearing Officer Recommendations and EPA comments. The Draft Final Permit for Riverbend and the Hearing Officer Report for Riverbend were submitted to EPA for approval on May 26. Permits for Allen and Marshall steam stations will be re-noticed to incorporate 316a Temperature Variance requirements and dewatering language based on the new data that will be submitted by Duke on May 11, 2015.

DWR will continue to modify NPDES permits for Duke's remaining 11 facilities by the end of 2015.

Other Surface Water-related activities

On April 27, 2015, DWR issued a letter to the Asheville Plant that will allow Duke Energy to lower the water surface in the 1964 pond to allow the video inspection of the HDPE piping that was mandated by the NC Dam Safety Program.

On May 12, 2015, DWR conducted a site visit of the Lee Plant to investigate the seeps that have an unusually high flow rates and the conflicting reports on the nature of the water conveyances at the site.

On June 1, 2015, the DWR issued a letter to the Belews Steam Station that will allow Duke Energy to construct a new training facility and associated wastewater conveyance system.

On June 4, 2015, the DWR issued a letter to the Marshall Steam Station that will allow Duke to conduct a pilot study for a new management method of vertical flow cells in the constructed wetland.

4. Ash Pond Closure-Related Activities

DWR's initial step in protection and restoration activities is the development of National Pollutant discharge Elimination System (NPDES) permits that allow Duke to begin excavation of coal ash. DWR developed draft permits for three Duke facilities (Allen, Marshall and Riverbend) and issued a Public Notice on March 6,

2015. A public hearing was held on April 8, 2015 in Lincolnton, NC. Unpermitted discharges are being included in the draft permits developed by DWR as an interim step to their eventual elimination or treatment. The Riverbend permit was the first to allow for the dewatering of the coal ash pond necessary to begin eventual complete removal of the ash and pond closure. (DWR consulted with EPA regional personnel numerous times, as the EPA felt that these first draft permits were precedent-setting templates to potentially be followed by other states to allow the permitting of seeps as an interim step to their elimination and to allow for safe dewatering of the ash ponds.) The Draft Final Permit for Riverbend and the Hearing Officer Report for Riverbend were submitted to EPA for approval on May 26.

As noted in Section 3, DWR has taken steps to allow Duke Energy to make modifications to its treatment systems in order to facilitate removal of the coal ash from the 1964 ash pond.

5. Dan River Sampling Update

Personnel from DWR's Water Sciences Section (WSS) and Winston Salem Regional Office (WSRO) continue to collect surface water and fish tissue samples in the Dan River related to the Duke Energy Coal Ash Spill.

Water Quality Sampling events since January 1, 2015 include 35 samples that have been collected for quantification of up to 9 different analytes, resulting in 315 discrete data points. No increases in coal ash related parameters were documented. June samples have not yet been analyzed.

Fish Tissue Sampling: The third round fish tissue assessment has been completed and released. This was the first long term comparison of potential bioaccumulation of coal ash related pollutants in fish tissue. Results for the third round of sampling are similar to baseline data and historical data. Since January 2015, 61 samples have been processed for quantification of 16 different analytes, resulting in 976 discrete data points. Round four fish tissue samples have been collected and will be processed and submitted to the analytical laboratory in the next few weeks.

Reports and data from these monitoring efforts are available on the DWR Water Sciences Section webpage <http://portal.ncdenr.org/web/wq/ess/reports>.

Mooreville Regional Office
 DENR/DEMLR Quarterly Report on Coal Ash Management Activities due to the ERC
 June - August 2014

No	Plant Name	Stormwater List of Letters Sent/Received (with Date)	List of Stormwater Applications Received/Pending	Stormwater Application Status	Stormwater List of Inspections, (Date and General Findings)	Dam Safety List of Letters Sent/Received (with Date)	List of Dam Safety Applications Received/Pending	Dam Safety Application Status	Dam Safety List of Inspections, (Date and General Findings)	Erosion and Sediment Control List of Plans & Inspections, (Date and General Findings)
1	Allen Steam Station			4-8-2015, Staff from DEMLR participated in public hearing for Stormwater permits. This hearing is being held for public comment on draft permit for Marshall Steam station.	3/24/2015 - site visit with RCO permitting staff (Bradley, Mike, Ken) and LQ staff Brad cole before issuance of draft permit.	GASTO-016 NOD 6/13/14. GASTO-061 NOD 6/13/14. Duke letter 6/26/14. Duke letter 8/11/14. GASTO-061 letter 8/11/14. GASTO-061 letter	GASTO-016, GASTO-061 repair plans due 9/26/14.	EAP under review. EAP reviewed for GASTO-016 and GASTO-061 and comments to Raleigh. NOD June 13, 2014 Compliance Letter and review for Retired Ash Basin.	6/12/14 - camera inspection review for GASTO-061 and GASTO-016. Both spillways need repair. 5/27/15- periodic inspections of GASTO-016, GASTO-061.	Allen Steam Station Ash Basin Improvement, GASTO-2015-017, issued 3/25/15; Allen Steam Station Ash basin Groundwater Assessment, GASTO-2015-019, issued 3/25/15 with revision to plan approved 5/19/15;
2	Belews Creek Steam Station					ROWAN-047 NOD 6/13/14. ROWAN-069 NOD 6/13/14. ROWAN-070 NOI 6/13/14. Duke letter 7/30/14. ROWAN-047 letter 8/11/14. ROWAN-069 letter 8/11/14. ROWAN-070 NOD 8/11/14. Duke letter 8/22/14.		EAP under review. EAP review for ROWAN-047, 68, 69, 70 and ROWAN-071. Rowan-069, Buck Steam Station Basin 1 to Basin 2 dam repair comments to Raleigh. ROWAN-068, Buck Steam Station Basin1 investigation of pipes. Outlet repair for ROWAN-069 comments. ROWAN-047, Pond 3	6/12/14 - camera inspection review for ROWAN-047, ROWAN-069, ROWAN-070. ROWAN-047 and ROWAN-069 need repair. Requested engineer's assessment of ROWAN-070. After evaluation of engineer's assessment, ROWAN-070 determined to need repair. 10/23/2014 - ROWAN-069 as-built inspection for evaluation of discharge channel repair. 6/10/15- Periodic Inspections of ROWAN-047, ROWAN-068, ROWAN-069, ROWAN-070 and ROWAN-071.	Buck steam station Local area reclamation, ROWAN-2014-007, issued 2/18/14 with additional area approved 5/9/14 and 6/5/14; Duke Energy Buck Station Fencing Project, ROWAN-2014-009, issued 5/19/14; Buck Combined Cycle Station Raw Water Supply and Wastewater Discharge, ROWAN-2015-005, issued 10/31/14; Buck Steam Station Combustion Turbine Demolition, ROWAN-2015-006, issued 10/31/14; Duke Energy Buck Combined Cycle Station - New Oil Building / Fire Water Overflow, ROWAN-2015-009, issued 12/16/14; Duke Energy Buck Office, ROWAN-2015-013, issued 3/25/15; Buck Steam
3	Buck Steam Station									
4	Cliffside Steam Station									
5	Dan River Steam Station									
6	Marshall Steam Station									
7	Riverbend Steam Station									
8	Asheville Power Station					049 NOD 6/13/14. RUTHE-070 NOD 6/13/14. Duke letter 6/26/14. Duke letter 7/30/14.	CLEVE-049, RUTHE-070 repair plans due 9/26/14.	CLEVE-047 repair plan under review. EAP under review. Cliffside Inactive Ash basin # 5	CLEVE-049, RUTHE-070. All spillways need repair. 5/6/15 periodic inspections of CLEVE-047,049,050,053, 054, RUTHE-070, 072.	Cliffside RCAB Building, CLEVE-2015-012, issued 11/17/14; Cliffside Steam Station Ash Basin Groundwater Assessment, CLEVE-2015-020, issued 3/25/2015 .
9	Cape Fear Power Station									
10	Sutton Power Station			4-8-2015, Staff from DEMLR participated in public hearing for	3/24/2015 - site visit with RCO permitting staff (Bradley, Mike, Ken) and LQ staff Brad cole	CATAW-054 NOI 6/13/14. Duke letter 6/26/14. Duke letter 7/30/14. NOD issued 8/11/14.	CATAW-054 repair plan for spillway system due 10/16/14, CATAW-2014-009 application	CATAW-054 erosion repair plan under review. EAP under review. CATAW-2014-009 application	6/12/14 camera inspection review for CATAW-054. Requested engineer's assessment of video. 3/25/15 periodic inspection of CATAW-054	Marshall Steam Station Units 1-4 Active Ash Basin Dam Downstream Erosion Repair, CATAW-2014-009, issued 6/3/14; Sediment Inspections: March 25, 2015 CATAW-2000-007
11	Mayo Power Station									
12	Roxboro Power Station									
13	Weatherspoon Power Station									
14	H. F. Lee Power Station									
				1/15/2015, Comments for the Draft SW permit by MRO staff. 4-8-2015, Staff from DEMLR participated in public hearing for Stormwater permits. This hearing is being held for public comment on draft permit for Marshall Steam station.		GASTO-098 Pipe NOD 6/13/14. GASTO-099 letter 6/13/14. Duke letter 6/26/14. Duke letter 7/30/14. GASTO-098 letter 8/11/14. GASTO-099 letter 8/11/14. Duke letter 8/22/14. GASTO-097,098, 099 NOI 4/14/15. GASTO-099 NOI 5/21/15 for camera inspection		GASTO-098 repair plan due 9/26/14. GASTO-099 next annual internal camera inspection due by 3/27/15, with engineer's assessment and copy of video submitted within 30 days	6/12/2014 camera inspection for GASTO-098, GASTO-099. GASTO-098 needs repair. Requested engineer's assessment of GASTO-099 video. 3/24/15 periodic inspections of GASTO-097,098,099. 5/14/15 camera inspection GASTO-099	GASTO-2014-011, issued 6/2/14 with revisions approved 10/13/14; Riverbend Steam Station Decommissioning - Phases 1, 3, and 4 Only, GASTO-2014-012, issued 7/3/14; Riverbend Steam Station Demolition - Phase 2, GASTO-2015-010, issued 1/8/15; Riverbend Steam Station Demolition - Phases 1,3 and 4, GASTO-2015-011, issued 1/8/15; Riverbend Steam Station Ash Basin Groundwater Assessment, GASTO-2015-018, issued 3/25/14. Riverbend Steam Station Demolition - Phase 1, 3, and 4 Only (Additional Area for Land Clearing), issued 3/26/15; Riverbend Ralline Improvements, GASTO-2015-027, issued 5/15/15; Riverbend Steam Station Ash Basin Groundwater Assessment, GASTO-2015-018, issued 5/26/15; Sediment Inspections: March 4, 2015-GASTO-2015-010, Meeting to discuss phase operations and Pre-construction meeting at site. March 4, 2015-GASTO-2015-011, Meeting to discuss phase operations and Pre-construction meeting at site. March 4, 2015-GASTO-2015-012, Meeting to discuss phase operations and Pre-construction meeting at site. April 1, 2015-GASTO-2015-011, Meeting at site for tree cutting permit only. April 1, 2015-GASTO-2015-012, Meeting at site for tree cutting permit only. April 1, 2015-GASTO-2015-018, Meeting at site for Grounwater Assessment to document NPDES only. April 1, 2015-GASTO-2015-022, Meeting at site for tree cutting permit only.

Raleigh Regional Office

DENR/DEMLR Quarterly Report on Coal Ash Management Activities due to the ERC
June - August 2014

No	Plant Name	Stormwater List of Letters Sent/Received (with Date)	List of Stormwater Applications Received/Pending	Stormwater Application Status	Stormwater List of Inspections, (Date and General Findings)	Dam Safety List of Letters Sent/Received (with Date)	List of Dam Safety Applications Received/Pending	Dam Safety Application Status	Dam Safety List of Inspections, (Date and General Findings)	List of Mining Application Received/Pending
1	Allen Steam Station									
2	Belews Creek Steam Station									
3	Buck Steam Station									
4	Cliffside Steam Station									
5	Dan River Steam Station									
6	Marshall Steam Station									
7	Riverbend Steam Station									
8	Asheville Power Station									
9	Cape Fear Power Station									
10	Sutton Power Station									

*NOR 6/26/14 on CHATH-075 pipe camera inspection; NOR Response received 7/3/14.
 *NOD 6/26/14 on CHATH-077 pipe camera inspection; NOD Response received 7/3/14.
 *NOD 6/26/14 on CHATH-078 pipe camera inspection; NOD Response received 7/3/14.
 *NOR 6/26/14 on CHATH-079 pipe camera inspection; NOR Response received 7/3/14.
 *NOD 8/12/14 on CHATH-075 Follow-up pipe inspection Report; NOD Response received 8/21/14.
 *NOD 8/12/14 on CHATH-077 Follow-up pipe inspection Report; NOD Response received 8/21/14.
 *NOD 8/12/14 on CHATH-078 Follow-up pipe inspection Report; NOD Response received 8/21/14.

*Application received 6/5/14 from central office for repairs at CHATH-079. *Follow-up Pipe Assessment Reports for CHATH-075, CHATH-077, CHATH-078, and CHATH-079 Received. *Repair Application for CHATH-079 received from central office. *EAP's for CHATH-078 and CHATH-079 received 8/8/14 from central office. *Repair plans for CHATH-078 and CHATH-079 received 10/21/14 from central office. *As-Built Plans for Phase 1 Modifications at CHATH-079 received 1/20/15. *Submittal of Engineering Repairs and Slope Stabilization for Cape Fear 1978 Ash Basin Dam (amended plans replace 10/16/14 submittal, CHATH-078 received 1/27/2015 from Central Office. *Submittal of Response to Request for Revision Cape Fear 1978 Ash Basin Dam (Scope 2) CHATH-078 received 3/4/2015 from Central Office.

*Comments sent to central office 6/24/14. *Follow-up letters sent 8/12/14. *Under review 8/31/14. Comments discussed with CO 9/2014. *Under review 8/31/14. Comments discussed with CO 9/2014. CO response 10/31/14. *Comments discussed with CO 11/2014. *As-Built insp. 3/17/15. *CHATH-078 Approval to Repair, Scope 2 by CO 4/1/15. *CHATH-079 Approval to Repair, Aden. 1, Scope 2 by CO 5/8/15.

Fear Plant reviewing DWR report regarding discharge from plant and DS turbidity. Report sent to CO 10/6/14.
 *03/17/15 inspection of CHATH-079H; as-built for valve/drain installation and general inspection; dam appears to be stable and in good condition.
 *6/10/15 - Inspection of CHATH-075. Pond is inactive and appears stable.
 *6/10/15- inspection of CHATH-076. Overall condition still appear stable. Seepage continues to be monitored at AOW S-15.
 *6/10/15- inspection of CHATH-077. Continues to appear stable. Fiberglass outlet pipe requires repair (plan in progress).
 *6/10/15- inspection of CHATH-078. Eastern slope scope repair in progress. Vegetation management continues to progress. Trash rack not yet repaired (rusted/damaged).

11 Mayo Power Station	<p>*NOR 6/26/14 on PERSO-035 pipe camera inspection; NOR Response received 7/3/14.</p> <p>*NOD 8/12/14 on PERSO-035 Follow-up pipe inspection Report; NOD Response received 8/21/14. *NOR 6/26/14 on PERSO-039 pipe camera inspection; NOD Response received 7/3/14. *NOD 8/11/14 on PERSO-039 Follow-up pipe inspection Report; NOD Response received 8/21/14.</p>	<p>*Follow-up Pipe Assessment Report for PERSO-035 received 7/30/14.</p> <p>*EAP's for PERSO-034, PERSO-035, PERSO-036, and PERSO-037 received from central office.</p> <p>*Repair Plan for PERSO-035 received from central office 10/15/14. *Revised O&M Manual Received 5/18/15.</p> <p>*Follow-up Pipe Assessment Report for PERSO-039 received 7/25/14.</p> <p>*EAP's for PERSO-038, PERSO-039, PERSO-040, PERSO-041, and PERSO-042 received from central office. *Repair plan for PERSO-039 received 10/2014 from CO.</p>	<p>*Follow-up letter sent 8/12/14.</p> <p>*Under review 8/31/14.</p> <p>Comments discussed with CO 9/2014. CO Response 10/31/14.</p> <p>*Comments discussed with CO 11/2014.</p>	
12 Roxboro Power Station 13 Weatherspoon Power Station	<p>*NOR 6/26/14 on PERSO-039 pipe camera inspection; NOD Response received 7/3/14.</p> <p>*NOD 8/12/14 on PERSO-039 Follow-up pipe inspection Report; NOD Response received 8/21/14. * Letter of receipt of Roxboro West Ash Basin Dam - scopes 1 & 2 PERSO-038 sent by CO received 03/05/2015</p>	<p>*Follow-up Pipe Assessment Report for PERSO-039 received 7/25/14.</p> <p>*EAP's for PERSO-038, PERSO-039, PERSO-040, PERSO-041, and PERSO-042 received from central office. *Repair plan for PERSO-039 received 10/2014 from CO.</p> <p>*Submittal of Engineering Repairs for Roxboro East Ash Basin PERSO-033 report received 3/3/2015. *Submittal of Engineering Repairs for Roxboro West Ash Basin Dam - Scopes 1 & 2 PERSO-038 received 03/03/2015 from CO.</p> <p>* Submittal of Response to Request for Revision Roxboro West Ash Basin PERSO-038 received 04/13/2015 from CO</p> <p>*Revised O&M Manual Received 5/18/15.</p>	<p>*Follow-up letter sent 8/12/14.</p> <p>*Under review 8/31/14.</p> <p>Comments discussed with CO 9/2014. CO response letter 10/31/14.</p> <p>*Comments discussed with CO 11/2014. Approval issued by CO 12/11/14. *Approval to Repair, PERSO-033, Scopes 1 & 2, by CO 3/30/15. *Approval for Revisions to Repairs, PERSO-038 Scopes 1 & 2 by CO 4/2/15.</p>	<p>*12/5/14 Duke reported sink hole DS from PERSO-013 (Roxboro Afterbay Dam) under EAP activation and provided report of field observations confirming no immediate threat to dam. *Roxboro Plant Subsurface Exploration, PERSO-2015-006, received 3/23/15. *Roxboro Dry Fly Ash Silo Addition, PERSO-2015-008, received 5/18/15.</p> <p>*PERSO-2015-006 S&E Approval issued 3/27/15. *PERSO-2015-008 S&E Approval issued 5/22/15.</p>
14 H.F. Lee Power Station				
15 Brickhaven No 2, Tract "A"	<p>*6/1/15 - NOV issued to Green Meadow LLC and Moncure Holdings LLC regarding Rail Spur to extend from mine site.</p>	<p>*5/29/15 Site inspection at rail spur easement beyond the mine found no permit since no S&E Approval had been Obtained.</p>		

16 Colon Mine permit 53-05

Letter to approve revision of
certificate of coverage NCG020854
to reflect new company and/or
facility name received 01/02/2015
from Central Office

Fayetteville Regional Office

DENR/DEMRLR Quarterly Report on Coal Ash Management Activities due to the ERC
June - August 2014

No	Plant Name	Stormwater List of Letters Sent/Received (with Date)	List of Stormwater Applications Received/Pending	Stormwater Application Status	Stormwater List of Inspections, (Date and General Findings)	Dam Safety List of Letters Sent/Received (with Date)	List of Dam Safety Applications Received/Pending	Dam Safety Application Status	Dam Safety List of Inspections, (Date and General Findings)	Mining List of Letters Sent/Received (with Date)	List of Mining Applications Received/Pending	Mining Application Status	Mining List of Inspections, (Date and General Findings)
1	Allen Steam Station												
2	Belews Creek Steam Station												
3	Buck Steam Station												
4	Cliffside Steam Station												
5	Dan River Steam Station												
6	Marshall Steam Station												
7	Riverbend Steam Station												
8	Asheville Power Station												
9	Cape Fear Power Station												
10	Sutton Power Station												
11	Mayo Power Station												
12	Roxboro Power Station												
	Weatherspoon Power Station						Revised plans for repair received from Duke Energy 2/10/2014						
	Weatherspoon Power Station						Slope stability evaluation and repair received from Duke Energy 2/29/2014						
13	Weatherspoon Power Station						Plans For Repair Received from Duke Energy 10/2/2014						
	Weatherspoon Power Station								Duke Energy Inspection Report of Weatherspoon Ash Basin Received 1/13/2015				
	Weatherspoon Power Station						H&H channel capacity evaluation and addendum to seepage and slope stability received from Duke Energy 2/2/2015						
	Weatherspoon Power Station						Addendum to seepage and slope stability received from Duke Energy 2/4/2015						
	Weatherspoon Power Station						ROBES 2015-008 ESC Plan for slope stability evaluation approved on 3-4-2015						Duke Energy Dam Inspection- As built evaluation of slope repairs at Weatherspoon Ash basin 5/22/15. Rip rap slope repairs were satisfactory.
14	H.F. Lee Power Station						Operations and Maintenance Manual Revision- 5/18/15						
							Application for Dam Modification Revision 1 to Scope 1- 6/1/15						Fayetteville Comments to Central Office RE: Application for Dam Dam Modification - Revision 1 to Scope 1 - 6/9/2015
							Final Approval for Repairs - Scope2 Weatherspoon 1979 Ash Pond Dam - June 4, 2015 (sent from central office)						
							Response to NOI from Duke Energy received 2/9/2015 with supporting documentation						

Note: Mining Permits and Modifications are for Reclamation Modifications at two existing Permitted Mine areas. They are Colon Mine (permit 53-05) Brickhaven #2 Pit (permit 19-25).
 Colon - ADIT letter sent - 12/19/14 11/21/2014 Pending - waiting additional inform 12/5/2014
 Brickhaven #2 -ADI letter sent -12/ 11/21/2014 Pending - waiting additional inform 12/5/2014

Washington Regional Office

DENR/DEMLR Quarterly Report on Coal Ash Management Activities due to the ERC
June - December 2014

No	Plant Name	Stormwater List of Letters Sent/Received (with Date)	List of Stormwater Applications Received/Pending	Stormwater Application Status	Stormwater List of Inspections, (Date and General Findings)	Dam Safety List of Letters Sent/Received (with Date)	List of Dam Safety Applications Received/Pending	Dam Safety Application Status	Dam Safety List of Inspections, (Date and General Findings)
1	Allen Steam Station								
2	Belews Creek Steam Station								
3	Buck Steam Station								
4	Cliffside Steam Station								
5	Dan River Steam Station								
6	Marshall Steam Station								
7	Riverbend Steam Station								
8	Asheville Power Station								
9	Cape Fear Power Station								
10	Sutton Power Station								
11	Mayo Power Station								
12	Roxboro Power Station								
13	Weatherspoon Power Station					NOI 6/26/14;NOI Response 7/30/14; NOD 8/6/14; NOD Response 8/21/14 (WaRO)	October 2014; Commented on repair plan submittal and sent to Central Office		
14	H.F. Lee Power Station								

No dam safety or stormwater applications received during the first half of calendar 2015 (6/12/15)

Plant Name

State Dam ID	Dam Name	Letters Sent/Received (with Date)	List of Stormwater Applications Received/Pending	Stormwater Application Status	Inspections, (Date and General Findings)	Dam Safety List of Letters Sent/Received (with Date)	List of Dam Safety Applications Received/Pending	Dam Safety Application Status
Allen Steam Station								
GASTO-061	Allen Active Ash Basin Dam					NOD 6/13/14; Initial Response rec'd 6/26/14; Pipe evaluation report rec'd 7/31/14; NOD followup (plan required) sent 8/11/14;	RevReq sent 10/30/14 NOD response rec'd 9/26/14; Scopes 1&3 COAR issued 12/5/14; Scopes 2&4 rec'd on 11/6/14; Scopes 2&4	10/30/14; Scopes 1&3 COAR issued 12/5/14; Scopes 2&4 COAR issued on 4/1/15
GASTO-016	Allen Retired Ash Basin Dam					NOD 6/13/14; Initial Response rec'd 6/26/14; Pipe evaluation report rec'd 7/31/14; NOD followup (plan required) sent 8/11/14;	RevReq sent 10/30/14 NOD response rec'd 9/26/14; Scopes 1,2,&3 COAR issued 12/8/14; Scope 4 rec'd on 11/17/14; Scope	10/30/14; Scopes 1,2,&3 COAR issued 12/8/14; Scope 4 Rev Req sent 4/2/15; Scope 4 Rev Req #2 sent 4/24/15;
Belews Creek Steam Station								
STOKE-116	Belews Creek Active Ash Basin Dam					NOI 6/26/14; Initial Response rec'd 7/2/14; Pipe evaluation report rec'd 7/31/14; NOD 8/7/14;	RevReq sent 10/30/14 NOI/NOD response rec'd 10/13/14; Scope 3 rec'd 10/1/14; Scope 2 rec'd 10/30/14; Scope 1&3 COAR	10/30/14; Scope 1&3 COAR issued 1/30/15; Scope 3 RevReq sent 1/27/15; Scope 3 COAR issued
Buck Steam Station								
ROWAN-047	Buck Steam Station Main Dam					NOD 6/13/14; Initial Response rec'd 6/26/14; Pipe evaluation report rec'd 7/31/14; NOD followup (plan required) sent 8/11/14;	RevReq sent 10/30/14 NOD/NOI response rec'd 9/26/14; Scope 1 COAR issued 1/6/15; Scope 2 RevReq sent 1/23/15; Scope 2	10/30/14; EAP rec'd 1/29/15; EAP pending review; Scope 1 COAR issued 1/6/15; Scope 2 RevReq sent 1/23/15;
ROWAN-068	Buck Steam Station New (Additional Primary) Dam						Plan rec'd 9/26/14; Revised Plan rec'd 1/27/15; Approval to proceed with plan issued 2/26/15	10/30/14; EAP rec'd 1/29/15; EAP pending review; Approval to proceed with plan issued 2/26/15
ROWAN-069	Buck Steam Station Basin 1 to Basin 2 Dam					NOD 6/13/14; Initial Response rec'd 6/26/14; Pipe evaluation report rec'd 7/31/14; NOD followup (plan required) sent 8/11/14;	EAP rec'd 7/31/14; RevReq sent 10/30/14 NOD/NOI response rec'd 9/26/14; Scope 1 COAR issued 12/10/14	10/30/14; EAP rec'd 1/29/15; EAP pending review; Scope 1 COAR issued 12/10/14
ROWAN-070	Buck Steam Station Basin 2 to Basin 3 Dam					NOI 6/13/14; Initial Response rec'd 6/26/14; Pipe evaluation report rec'd 7/31/14; NOD 8/11/14;	EAP rec'd 7/31/14; RevReq sent 10/30/14 NOD/NOI response rec'd 10/13/14; Scope 1 COAR issued 12/22/14	10/30/14; EAP rec'd 1/29/15; EAP pending review; Scope 1 COAR issued 12/22/14
ROWAN-071	Buck Steam Station Divider Dam					N/A	EAP rec'd 7/31/14; RevReq sent 10/30/14; EAP rec'd 1/29/15	EAP rec'd 7/31/14; RevReq sent 10/30/14; EAP rec'd 1/29/15; EAP pending review
Cliffside Steam Station								
RUTHE-070	Cliffside Inactive Ash Basin #5 Main Dam					(Previous NOD 3/5/14); NOD 6/13/14; Initial Response rec'd 6/26/14; Pipe evaluation report rec'd 7/28/14; NOD followup (plan required) sent 8/11/14	EAP rec'd 7/31/14; RevReq sent 10/30/14 NOD/NOI response rec'd 9/26/14; Scope 1 COAR issued 2/2/15; Scope 2 rec'd 9/26/14; EAP rec'd 7/31/14; RevReq sent 10/30/14;	EAP rec'd 7/31/14; RevReq sent 10/30/14; Scope 1 COAR issued 2/2/15; Scope 2 determined as EAP rec'd 7/31/14; RevReq sent 10/30/14; Scope 1 rec'd 2/23/15; Scope 1 COAR issued 3/18/15
RUTHE-072	Cliffside Inactive Ash Basin #5 Saddle Dam					N/A		Scope 1 COAR issued 3/18/15

CLEVE-050	Cliffside Active Ash Basin Upstream Dam	N/A	EAP rec'd 7/31/14; RevReq sent 10/30/14	EAP rec'd 7/31/14; RevReq sent 10/30/14
CLEVE-049	Cliffside Active Ash Pond Downstream Dam	NOD 6/13/14; Initial Response rec'd 6/26/14; Pipe evaluation report rec'd 7/31/14; NOD followup (plan required) sent 8/11/14;	NOD/NOI response rec'd 9/26/14; Scope 1 COAR issued 3/12/15; Scope 2 rec'd EAP rec'd 7/31/14; RevReq sent 10/30/14;	EAP rec'd 7/31/14; RevReq sent 10/30/14; Scope 1 COAR issued 3/12/15; Scope 2 COAR issued 3/17/15
CLEVE-047	Cliffside Inactive Ash Basin 1-4 Main Dam	(Previous NOD 3/5/14); NOD 6/13/14; Initial Response rec'd 6/26/14; Pipe evaluation report rec'd 7/31/14;	Scope 1&2 rec'd 9/30/14; Scope 2 COAR issued 1/26/15; Scope 1 COAR issued	EAP rec'd 7/31/14; RevReq sent 10/30/14; Scope 2 COAR issued 1/26/15; Scope 1 COAR issued 3/17/15
Dan River Steam Station				
ROCKI-237	Dan River Active Primary Ash Basin	N/A	Scopes 1, 2, & 3 work was completed by using emergency dam safety order; Scope 4 COAR issued on 4/1/15; Scope 5 COAR	10/30/14; Scopes 1, 2, & 3 work was completed by using emergency dam safety order; Scope 4 COAR issued on
ROCKI-238	Dan River Active Secondary Ash Basin	NOD 6/26/14; Initial Response rec'd 7/2/14; Pipe evaluation report rec'd 7/31/14; NOD followup (plan required) sent 8/12/14	NOD/NOI response rec'd 9/26/14; Scope 1 COAR issued 12/5/14; Scope 3 PWCM issued on 5/28/15	10/30/14; Scope 1 COAR issued 12/5/14; Scope 2 not rec'd; Scope 3 PWCM issued on 5/28/15
Marshall Steam Station				
CATAW-054	Marshall Active Ash Basin Dam	NOI 6/13/14; Initial Response rec'd 6/26/14; Pipe evaluation report rec'd 7/31/14; NOD 8/11/14	NOI/NOI response rec'd 9/26/14; Scope 3 COAR issued 9/18/14; Scopes 1&2 rec'd 10/13/14;	EAP rec'd 7/31/14; RevReq sent 10/30/14 Repair plan pending review; Scope 3 COAR issued 9/18/14; Scopes 1 COAR issued
Riverbend Steam Station				
GASTO-097	Riverbend Active Ash Basin Dam 1 (Primary)	N/A	EAP rec'd 7/31/14; RevReq sent 10/30/14	EAP rec'd 7/31/14; RevReq sent 10/30/14; EAP rec'd 12/2/14; EAP pending review
GASTO-098	Riverbend Active Ash Basin Dam 2 (Secondary)	NOD 6/13/14; Initial Response rec'd 6/26/14; Pipe evaluation report rec'd 7/31/14; NOD followup (plan required) sent 8/11/14	NOD response received 9/26/14; Scope 1 COAR issued 12/5/15; Scope 2 determined to not be required; Scope 3 COAR issued	10/30/14; EAP rec'd 12/2/14; EAP pending review; Scope 1 COAR issued 12/5/15; Scope 2 determined to not be required; Scope 3 COAR issued
GASTO-099	Riverbend Ash Basin Intermediate Dam	NOI 6/13/14; Initial Response rec'd 6/26/14; Pipe evaluation report rec'd 7/31/14; NOI follow-up 8/11/14	EAP rec'd 7/31/14; RevReq sent 10/30/14	EAP rec'd 7/31/14; RevReq sent 10/30/14; EAP rec'd 12/2/14; EAP pending review
Asheville Power Station				
BUNCO-089	Asheville 1982 Ash Pond Dam	NOI 6/16/14; Initial Response rec'd 6/27/14; Pipe evaluation report rec'd 7/30/14; NOD 8/6/14;	NOI response received 10/13/14; Scope 1 COAR issued 12/19/14; Scope 2 received 5/18/2015	EAP rec'd 7/31/14; RevReq sent 10/30/14; Scope 1 COAR issued 12/19/14; Scope 2 pending review
BUNCO-097	Asheville 1964 Ash Pond Dam	NOI 6/16/14; Initial Response rec'd 6/27/14; Pipe evaluation report rec'd 7/30/14; NOI follow-up 8/16/14	EAP rec'd 7/31/14; RevReq sent 10/30/14	EAP rec'd 7/31/14; RevReq sent 10/30/14
Cape Fear Power Station				

CHATH-075	Cape Fear 1956 Ash Pond (Inactive)	NOI 6/26/14; Initial Response rec'd 7/2/14; Pipe evaluation report rec'd 7/28/14; NOD 8/11/14;	NOR/NOD rec'd 10/13/14; Scope 1 COAR issued 3/6/15	Scope 1 COAR issued 3/6/15
CHATH-076	Cape Fear 1963 Ash Pond Dam (Inactive)	N/A	N/A	
CHATH-077	Cape Fear 1970 Ash Pond Dam (Inactive)	NOD 6/26/14; Initial Response rec'd 7/2/14; Pipe evaluation report rec'd 7/28/14; NOD followup (plan required) sent 8/11/14;	NOD response received 9/26/14; Scope 1 COAR issued 3/12/15 EAP rec'd 7/31/14; RevReq sent 10/30/14	Scope 1 COAR issued 3/12/15 EAP rec'd 7/31/14; RevReq sent
CHATH-078	Cape Fear 1978 Ash Pond Dam	NOD 6/26/14; Initial Response rec'd 7/2/14; Pipe evaluation report rec'd 7/28/14; NOD followup (plan required) sent 8/11/14;	NOD/NOI response received 9/26/14; Scope 1 COAR issued 1/22/15; Scope 2-1 rec'd 7/31/14; RevReq sent 10/30/14 Repair application rec'd 8/20/14; Scopes 1&2 COAR issued 9/12/14; Scope 3 rec'd 9/15/14;	10/30/14; EAP rec'd 12/2/14; EAP pending review; Scope 1 COAR issued 10/30/14; EAP rec'd 12/2/14; EAP pending review; Scopes 1&2 COAR issued 9/12/14; Scope 3 proceed with work w/o COAR 9/15/14; Scope 4
CHATH-079	Cape Fear 1985 Ash Pond Dam	(Previous NOD 3/28/14); Pipe NOI 6/26/14; Initial Response rec'd 7/2/14; Pipe evaluation report rec'd 7/28/14;	Scope 3 proceed with work w/o COAR	
Sutton Power Station				
NEWHA-005	Sutton 1984 Ash Pond	NOI 6/17/14; Initial Response rec'd 6/27/14; Pipe evaluation report rec'd 7/31/14; NOI follow-up 8/5/14	EAP rec'd 7/31/14; RevReq sent 10/30/14	EAP rec'd 7/31/14; RevReq sent 10/30/14; EAP rec'd 12/2/14; EAP pending review
NEWHA-004	Sutton 1971 Ash Pond	NOI 6/17/14; Initial Response rec'd 6/27/14; Pipe evaluation report rec'd 7/31/14; Dam is exempt	EAP rec'd 7/31/14; RevReq sent 10/30/14	EAP rec'd 7/31/14; RevReq sent 10/30/14; EAP rec'd 12/2/14; EAP pending review
Mayo Power Station				
PERSO-035	Mayo Ash Pond Dam	NOI 6/26/14; Initial Response rec'd 7/2/14; Pipe evaluation report rec'd 7/31/14; NOD 8/11/14	NOR/NOD rec'd 10/13/14; Scope 1 COAR issued 1/22/15; Scopes 2&3 RevReq sent 2/5/15; Scopes 2&3 COAR issued 3/6/15	10/30/14; Scope 1 COAR issued 1/22/15; Scopes 2&3 RevReq sent 2/5/15; Scopes 2&3 COAR issued
Roxboro Power Station				
PERSO-038	Roxboro West Ash Pond Dam	N/A	plans for Scopes 1&2 rec'd on 2/25/15; RevReq sent on 4/2/15 for Scopes 1&2; Scopes 1&2 COAR issued 4/15/15	10/30/14; RevReq sent on 4/2/15 for Scopes 1&2; Scopes 1&2 COAR issued 4/15/15
PERSO-039	Roxboro West Ash Pond South Rock Filter	NOD 6/26/14; Initial Response rec'd 7/2/14; Pipe evaluation report rec'd 7/25/14; NOD followup (plan required) sent 8/11/14	EAP rec'd 7/31/14; RevReq sent 10/30/14 NOD response received on 10/13/14 for Scope 1, Scope 1 COAR issued 12/11/14	EAP rec'd 7/31/14; RevReq sent 10/30/14; Scope 1 COAR issued 12/11/14; Scope 2 not rec'd yet
PERSO-033	Roxboro East Ash Pond	N/A	Scopes 1&2 RevReq sent 3/11/15; Scopes 1&2 COAR issued 3/30/15	Scopes 1&2 RevReq sent 3/11/15; Scopes 1&2 COAR issued 3/30/15
Weatherspoon Power Station				
ROBES-009	Weatherspoon 1979 Ash Pond	NOD 6/17/14; Initial Response rec'd 6/27/14; Pipe evaluation report rec'd 7/31/14; NOD followup (plan required) sent 8/8/14	7/31/14; RevReq sent 10/30/14 Repair as-built rec'd 9/5/14; NOD response rec'd 9/26/14; Scopes 1,2,&3 COAR issued	rec'd 7/31/14; RevReq sent 10/30/14; EAP rec'd 12/2/14; EAP pending review; Scopes 1,2,&3 COAR issued

H.F. Lee Power Station

Project ID	Project Name	Key Dates and Milestones	Regulatory Status
WAYNE-022	H.F. Lee Active Ash Pond	NOI 6/26/14; Initial Response rec'd 7/2/14; Pipe evaluation report rec'd 7/31/14; NOD 8/6/14	EAP rec'd 7/31/14; RevReq sent 10/30/14; NOD/NOI response rec'd 10/13/14; Scope 1 COAR issued 1/22/15; Scopes 2&3 COAR issued 1/29/15; Scope 1 Addendum 1 received 5/21/15
		N/A	EAP rec'd 7/31/14; RevReq sent 10/30/14; EAP rec'd 12/2/14; EAP pending review; Scope 1 COAR issued 1/22/15; Scopes 2&3 COAR issued 1/29/15; Scope 1 Addendum 1 pending review
		N/A	Plan rec'd 10/13/14 for Scope 1; Notice to proceed as an exempt dam issued on May 7, 2015
		N/A	Plan rec'd 10/13/14 for Scopes 1, 2, & 3; Notice to proceed as an exempt dam issued on May 7, 2015
		N/A	Plan rec'd 10/13/14 for Scopes 1 & 2; Notice to proceed as an exempt dam issued on May 7, 2015

7 Riverbend Steam Station	<ul style="list-style-type: none"> - Acknowledgement Letter - June 6, 2014 - Additional information letter sent - June 26, 2014 - Additional Info received - July 15, 2014 - Second Add Info Letter Sent - July 30, 2014 - Additional Info received - August 19, 2014; - Add Info Requested (Outfall 001) - Sept 15 2014 & Oct 30, 2014 - Add info Received - Dec 4, 2014 & Dec 8 2014 - Request for rail line construction work - May 12, 2015 	<ul style="list-style-type: none"> - Revised Application Received - May 16, 2014 - Monitoring Data - June 6, 2014 - Data/Info on Outfall 001 - Dec. 4, 2014 & Dec 8, 2014 - Application Amendment - December 18, 2014 	<ul style="list-style-type: none"> - Draft permit to public notice March 5, 2015. - Public Hearing Scheduled for April 8, 2015 - Public Hearing Held April 8, 2015 - Permit Issued May 15, 2015 	<ul style="list-style-type: none"> Site Visit - June 20 , 2014 - gathered information in support of permit application review.
8 Asheville Power Station	<ul style="list-style-type: none"> Addition Information Request sent - Aug 26, 2014; - Add Info (email) - Sept. 3, 2014 - Add Inf Received - Sept 18, 2014 	<ul style="list-style-type: none"> - Application Received - July 31, 2014 - Monitoring Data - October 30, 2014 	<ul style="list-style-type: none"> - In Review; - Draft to EPA for Review - Public Notice in June 	<ul style="list-style-type: none"> Site Visit - August 27 , 2014 - gathered information in support of permit application review.
9 Cape Fear Power Station	<ul style="list-style-type: none"> Addition Information Request sent - Aug 26, 2014 ; - Add Info Received - Email on Site Visit - Nov 13, 2014. - Letter on facility coal pile cleanup - March 11, 2015 	<ul style="list-style-type: none"> Application Received - July 31, 2014 	<ul style="list-style-type: none"> - Internal Draft Permit - Waiting for Dept. input on coal pile cleanup coverage. 	<ul style="list-style-type: none"> Site Visit - November 12 , 2014 - gathered information in support of permit application review.
10 Sutton Power Station	<ul style="list-style-type: none"> - Letter from Dept Feb 6, 2015 indicating Dept moving forward to draft NPDES permits. - Letter from Duke - February 23, 2015 - indicate all flow to effluent channel and covered by wastewater permit. 		<ul style="list-style-type: none"> - Duke has Challenged Ruling on Waters of the State for Sutton Lake. Will Impact Determination on Need for a Stormwater Permit. - Reviewing Feb. 23rd letter on permit applicability. - Stormwater included in wastewater permit - discharge to effluent channel. - Permit to Notice in June 	<ul style="list-style-type: none"> Site Visit - March 19, 2015 - Gather information on needs for permit coverage for various stormwater outfalls.
11 Mayo Power Station		<ul style="list-style-type: none"> - Application Received October 16, 2014. - Data submittal January 20, 2015 	<ul style="list-style-type: none"> In Process for Review 	
12 Roxboro Power Station		<ul style="list-style-type: none"> - Application Received - December 15, 2014 	<ul style="list-style-type: none"> In Process for Review 	

13 Weatherspoon Power Station		Wastewater application ammendment - included notice that previous stormwater coverage for haul roads, but ash hauling stopped and coverage removed. Are maintaining this status and will apply if there are industrial stormwater discharges in the future. - October 10, 2014	NPDES Stormwater Permit Not Required at This Time
14 H.F. Lee Power Station	- Permit Status Letter Received - October 16, 2014		No Stormwater Point Source - may need additional site visit

