



North Carolina Department of Environment and Natural Resources

Pat McCrory  
Governor

Donald R. van der Vaart  
Secretary

May 11, 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:** May 11, 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](mailto: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

# **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**

**April 30, 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 January 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. DWR will also sample wells out to ½ mile from the facilities' compliance boundaries if a well owner expresses concern about their well quality and requests the sample. A full explanation of the procedures to be utilized in this

sampling can be found at the following webpage:

<http://portal.ncdenr.org/web/wq/water-test-resident-info>. 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 end of April, 140 well owners were sent their results along with the health risk evaluation.

In April 2015, DWR initiated a limited study of background concentrations of parameters near three coal ash facilities: Allen, Buck & Marshall. Areas were selected that were at least a mile from the facilities and are located within the same geologic units. 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. DWR's goal is to sample 25 wells as part of this study.

#### 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.

Additional information regarding the GAPs can be found at the following link: [http://portal.ncdenr.org/web/wq//coal\\_ash\\_gw\\_assessment\\_plans](http://portal.ncdenr.org/web/wq//coal_ash_gw_assessment_plans). The information presented at this link includes the revised GAPs submitted by Duke Energy for all 14 facilities, DWR's review letters for each plan, and 10-day Implementation Letters.

#### Groundwater Protection and Restoration Report Summaries

All 14 reports were submitted on January 30, 2015. Each report has the following identical sections:

- Section 1.0 – Introduction
- Section 2.0 – Site Background
  - The reports give a brief history of the site operations.
- Section 3.0 – Groundwater Monitoring Summary
  - The reports summarize the concentrations detected above the groundwater quality standards.

- Section 4.0 – Groundwater Protection and Restoration Summary
  - The reports state that each facility contracted with an environmental consultant and began preliminary assessment activities in anticipation of the Groundwater Assessment Plan approvals.
- Section 5.0 – Groundwater Assessment Plan Status
  - At the time the reports were submitted, the Groundwater Assessment Plan reviews by DWR were still in progress.
- Section 6.0 – Groundwater Assessment Report Status
  - The reports state that Groundwater Assessment Reports will be submitted 180 days after approval of the Groundwater Assessment Plans
- Section 7.0 – Groundwater Corrective Action Plan Status
  - The reports state that the Groundwater Corrective Action Plans will be submitted 90 days after the submittal of the Groundwater Assessment Plans
- Section 8.0 – Drinking Water Supply Well Status
  - The reports indicate the Drinking Water Supply Well receptor surveys were completed and submitted to the DWR.

The reports contain two figures (one site location and one overall site map with compliance well locations) and two tables (one groundwater monitoring requirements from the groundwater monitoring plan and one well construction table). All 14 reports appear to meet the requirements of the Coal Ash Management Act G.S. 13A-309-209(d).

Other Groundwater-Related Activities:

In February, 2015, DWR Staff from the Central Office and Mooresville Regional Office, along with staff from the Division of Waste Management, visited the Duke Energy Marshall, Allen, Riverbend, and Buck Plants to review site conditions related to groundwater assessments and other related documents required by the Coal Ash Management Act.

On February 25, 2015, per EO 62, a Notice of Violation was sent to the Asheville Plant (NPDES Permit NC0000396) for exceedances of the 15A NCAC 02L .0202 Groundwater Quality Standards in Duke’s groundwater compliance wells.

On March 10, 2015, a Civil Penalty Assessment of \$25,100,000 was levied against Duke Energy for groundwater contamination at the Sutton facility (background: on August 26, 2014, a Notice of Violations had been sent to the L.V. Sutton Electric Plant in August of 2014 for exceedances of the 15A NCAC 02L .0202 Groundwater Quality Standards in their groundwater compliance wells).

### **3. Surface Water Discharge-Related Activities**

#### **Discharge Assessment Plans**

On December 31, 2014, Duke Energy submitted Discharge Assessment Plans. Duke identified all unauthorized discharges, or seeps, and sampled them. Seep locations and analytical results were summarized in the Discharge Assessment Plans for all 14 coal ash facilities. DWR sent a letter to Duke on January 12, 2015 requesting that changes be made to the plans for identification of new discharges. Duke Energy submitted a revised plan for the Buck steam station on March 12, 2015 as a model to determine if the changes had been made to DWR's satisfaction before proceeding with plans for the other facilities.

#### **Duke Energy Surface Water Protection and Restoration Report Summaries**

Duke Energy submitted two separate Surface Water Protection and Restoration Reports for calendar year 2014. One report addressed the Duke Energy Carolinas, LLC ash basins, while the second covered the Duke Energy Progress, Inc. ash basins. Both reports were received by DENR on January 30, 2015.

The Duke Energy Carolinas, LLC Ash Basins 2014 Surface Water Protection and Restoration Report contains the following sections:

- Section 1 – Introduction
- Section 2 – Site Background
  - The report contains site background summaries for seven electricity-generating facilities, including locations, histories, and processes for power generating plants and their associated ash basins. The facilities described are:
    - 2.1 Allen Steam Station
    - 2.2 Belews Creek Steam Station
    - 2.3 Buck Combined Cycle Station
    - 2.4 Cliffside Steam Station
    - 2.5 Dan River Combined Cycle Station
    - 2.6 Marshall Steam Station
    - 2.7 Riverbend Steam Station
- Section 3 – Surface Water Sampling Summary
  - This section summarizes the aspects of monitoring performed during 2014 at the seven facilities listed above including: water quality, water chemistry, fish tissue and sediment for trace elements and biological indicators, pursuant to the terms of each facility's NPDES permit, as well as in response to the Coal Ash Management Act (CAMA).
- Section 4 – Surface Water Protection and Restoration Summary
  - This section includes:
    - A list of documents submitted during 2014 in order to comply with the CAMA requirements

- A list of near-term CAMA commitments
  - A list of long-term CAMA commitments
  - A statement on Duke Energy’s ash impoundment closure strategy
- Section 5 – Discharge Identification Status
  - This section describes in general terms the content of Discharge Identification Plans submitted for the seven facilities noted in Section 2. The plans for each of the seven sites were submitted on September 30, 2014.
  - This section also includes a brief summary of Duke Energy’s identification and response to the February 2, 2014 release of coal ash from the broken pipe at the Dan River Station.
- Section 6 – Discharge Assessment Status
  - This section states that topographic maps depicting all engineered discharges and discharges not captured by engineered channels for coal combustion residuals impoundments, along with their associated Discharge Assessment Plans, were submitted for the seven facilities noted in Section 2 on December 30, 2014.

This report appears to satisfy the requirements of the Coal Ash Management Act.

The Duke Energy Progress, Inc. Ash Basins 2014 Surface Water Protection and Restoration Report contains the following sections:

- Section 1 – Introduction
- Section 2 – Site Background
  - The report contains site background summaries for seven electricity-generating facilities, including locations, histories, and processes for power generating plants and their associated ash basins. The facilities described are:
    - 2.1 Asheville Steam Electric Plant
    - 2.2 Cape Fear Steam Electric Plant
    - 2.3 H. F. Lee Energy Complex
    - 2.4 Mayo Steam Electric Plant
    - 2.5 Roxboro Steam Electric Plant
    - 2.6 L. V. Sutton Energy Complex
    - 2.7 Weatherspoon Plant
- Section 3 – Surface Water Sampling Summary
  - This section summarizes the aspects of monitoring performed during 2014 at the seven facilities listed above including: water quality, water chemistry, fish tissue and sediment for trace elements, pursuant to the terms of each facility’s NPDES permit, as well as in response to the CAMA.
- Section 4 – Surface Water Protection and Restoration Summary
  - This section includes:

- A list of documents submitted during 2014 in order to comply with the CAMA requirements.
- A list of near-term CAMA commitments
- A list of long-term CAMA commitments
- A statement on Duke Energy's ash impoundment closure strategy
- Section 5 – Discharge Identification Status
  - This section describes in general terms the content of Discharge Identification Plans submitted for the seven facilities noted in Section 2. The plans for each of the seven sites were submitted on September 30, 2014.
- Section 6 – Discharge Assessment Status
  - This section states that topographic maps depicting all engineered discharges and discharges not captured by engineered channels for coal combustion residuals impoundments, along with their associated Discharge Assessment Plans, were submitted for the seven facilities noted in Section 2 on December 30, 2014.

This report appears to satisfy the requirements of the Coal Ash Management Act.

#### 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 is reviewing the public comments and developing a Hearing Officer Report. 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 March 19, 2015, DWR Central and Regional office staff conducted a site visit to the Duke Sutton Plant to determine how the potential for designating the canal leading from the plant to Sutton Lake as an effluent channel will effect the need for a stormwater permit and a draft of a wastewater permit that are due to be issued the first week of April.

On February 6, 2015, DWR issued a letter to the Belews Creek Steam station that will allow Duke Energy to lower the Phreatic (water) surface in the dam so that repair of the dike can proceed.

On March 27, 2015, DWR issued a letter to the Asheville Plant that will allow Duke Energy to remove the rim ditch treatment system from 1964 ash pond and build an analogous or superior treatment system within the boundaries of 1982 ash pond. The project is necessary to facilitate removal of the coal ash from the 1964 ash pond.

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.

#### **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.) DWR continues its consultation with EPA on the proposed permits, and will be addressing EPA's comments.

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 conducted during this reporting period include 27 samples that have been collected for quantification of up to 9 different analytes, resulting in 239 discrete data points. No increases in coal ash related parameters were documented. March analytical results indicate a continued presence of high concentrations of Aluminum at all sites, which reflects natural conditions. One location in March also had Iron above the aquatic health-based standard of 1000 ug/L. April samples have not yet been analyzed and May samples have not yet been collected.

Fish Tissue Sampling: The fourth round of fish tissue samples were collected from four North Carolina sites during this reporting period and the third round fish tissue assessment report is near completion. Since January 2015, 61 samples have been processed for quantification of 16 different analytes resulting in 976 discrete data points (includes April). The round four fish tissue samples will be processed and submitted to the analytical laboratory in May.

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







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

Raleigh Regional Office

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								
14	H.F. Lee 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.

\*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.

\*10/3/14 inspection around Cape 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.

\*NOR 6/26/14 on PERSO-035 pipe camera inspection; NOR Response received 7/3/14.  
\*NOD 8/12/14 on PERSO-035 Follow-up pipe inspection Report; NOD Response received 8/21/14.

\*Follow-up Pipe Assessment Report for PERSO-035 received 7/30/14.  
\*EAP's for PERSO-034, PERSO-035, PERSO-036, and PERSO-037 received from central office.  
\*Repair Plan for PERSO-035 received from central office 10/15/14.

\*Follow-up letter sent 8/12/14.  
\*Under review 8/31/14.  
Comments discussed with CO 9/2014.  
CO Response 10/31/14.  
\*Comments discussed with CO 11/2014.

\*NOR 6/26/14 on PERSO-039 pipe camera inspection; NOD Response received 7/3/14.  
\*NOD 8/12/14 on PERSO-039 Follow-up pipe inspection Report; NOD Response received 8/21/14.

\*Follow-up Pipe Assessment Report for PERSO-039 received 7/25/14.  
\*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.

\*Follow-up letter sent 8/12/14.  
\*Under review 8/31/14.  
Comments discussed with CO 9/2014.  
CO response letter 10/31/14.  
\*Comments discussed with CO 11/2014.  
Approval issued by CO 12/11/14.

\*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.

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

Fayetteville Regional Office

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	Bellevue 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												
14	H.F. Lee Power Station												
							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 (perm# 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







**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
<b>Allen Steam Station</b>								
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	EAP rec'd 7/31/14; Plan due date 9/26/14	EAP pending review
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	EAP rec'd 7/31/14; Plan due date 9/26/14	EAP pending review
<b>Belews Creek Steam Station</b>								
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	EAP rec'd 7/31/14; Plan due date 10/13/14	EAP pending review
<b>Buck Steam Station</b>								
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	EAP rec'd 7/31/14; Plan due date 9/26/14	EAP pending review
ROWAN-068	Buck Steam Station New (Additional Primary) Dam					N/A	EAP rec'd 7/31/14	EAP pending review
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; Plan due date 9/26/14	EAP pending review
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; Plan due date 10/13/14	EAP pending review
ROWAN-071	Buck Steam Station Divider Dam					N/A	EAP rec'd 7/31/14	EAP pending review
<b>Cliffside Steam Station</b>								
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; Plan due date 9/26/14	EAP pending review
RUTHE-072	Cliffside Inactive Ash Basin #5 Saddle Dam					N/A	EAP rec'd 7/31/14	EAP pending review
CLEVE-050	Cliffside Active Ash Basin Upstream Dam					N/A	EAP rec'd 7/31/14	EAP pending review
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	EAP rec'd 7/31/14; Plan due date 9/26/14	EAP pending review
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	EAP rec'd 7/31/14; Plan due date 8/20/14	EAP pending review
<b>Dan River Steam Station</b>								
ROCKI-237	Dan River Active Primary Ash Basin					N/A	EAP rec'd 7/31/14	EAP pending review

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	EAP rec'd 7/31/14; Plan due date 9/26/14	EAP pending review
<b>Marshall Steam Station</b>				
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	Modification plan rec'd 6/11/14; EAP rec'd 7/31/14; Repair plan rec'd 8/26/14; Plan due date 10/13/14	Revisions/add'l info requestd for modification plan 7/28/14; EAP pending review
<b>Riverbend Steam Station</b>				
GASTO-097	Riverbend Active Ash Basin Dam 1 (Primary)	N/A	EAP rec'd 7/31/14	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	EAP rec'd 7/31/14; Plan due date 9/26/14	EAP pending review
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	EAP pending review
<b>Asheville Power Station</b>				
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	EAP rec'd 7/31/14; Plan due date 10/13/14	EAP 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	EAP pending review
<b>Cape Fear Power Station</b>				
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	Plan due date 10/13/14	
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	Plan due date 9/26/14	
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	EAP rec'd 7/31/14; Plan due date 9/26/14	EAP pending review
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	Modification application rec'd 6/2/14; EAP rec'd 7/31/14; Repair application rec'd 8/20/14; Plan due date 8/20/14	Revisions requestd for modification 06/26/14; EAP pending review; Repair plan pending review
<b>Sutton Power Station</b>				
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	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; <b>Dam is exempt</b>	EAP rec'd 7/31/14	EAP pending review
<b>Mayo Power Station</b>				
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	EAP rec'd 7/31/14	EAP pending review

**Roxboro Power Station**

PERSO-038	Roxboro West Ash Pond Dam	N/A	EAP rec'd 7/31/14	EAP pending review
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; Plan due date 10/13/14	EAP pending review
PERSO-033	Roxboro East Ash Pond	N/A	N/A	N/A

**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	Repair plans rec'd 5/13/14; EAP rec'd 7/31/14; Repair as-builts rec'd 9/5/14; Plan due date 10/13/14	Repair plans approved 6/27/14; EAP pending review; Repair as-builts pending review
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**H.F. Lee Power Station**

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; Plan due date 10/13/14	EAP pending review
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DENR/DEMLR Quarterly Report on Coal Ash Management Activities due to the ERC  
June 2014 - March 2015

Central Office Stormwater											
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)		
			- Application Received - October 1, 2014 - Amended App - October 24, 2014 - Second Amendment - Nov 19, 2014 - Monitoring Data - December 18, 2014		Draft permit to public notice March 5, 2015. Public Hearing Scheduled for April 8, 2015				Site Visit - March 24, 2015 - verify information from application submittal and help finalize permit requirements		
1	Allen Steam Station										
2	Belews Creek Steam Station	Addition Information Request sent - Aug 26, 2014; - Additional Info Received - Sept. 19, 2014	Application Received - August 1, 2014; - Monitoring Data - October 7, 2014	In Review					Site Visit - July 30, 2014 - gathered information in support of future permit application review and give input on question for application submittal.		
3	Buck Steam Station	- Letter requesting information on permit coverage needed for railroad cut - February 3, 2015. - Additional information on railroad cut - February 25, 2015 (email)	- Application Received - October 07, 2014 - Monitoring Data - December 18, 2014	- In Process for Review - Waiting for Dept. AOG input on railroad cut coverage.							
4	Cliffside Steam Station	- Addition Information Request sent - Aug 26, 2014 - - Stormwater Data Submittal Received - Aug 28, 2014 - not responsive to all add-inf; - Received Sept. 19, 2014	Application Received - August 4, 2014;	Internal Draft Permit							
5	Dan River Steam Station	Addition Information Request sent - Aug 26, 2014; - Additional Info Received - Sept. 22, 2014	- Application Received - August 1, 2014 Application Amendment - Dec. 17, 2014	In Review					Site Visit - July 3, 2014 - gathered information in support of future permit application review and give input on question for application submittal.		
6	Marshall Steam Station		- Application Received - October 15, 2014 - Monitoring Data - October 23, 2014 - Monitoring Data - Dec. 17, 2014		Draft permit to public notice March 5, 2015. Public Hearing Scheduled for April 8, 2015				Site Visit - March 24, 2015 - verify information from application submittal and help finalize permit requirements		
7	Riverbend Steam Station	- 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	- 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		Draft permit to public notice March 5, 2015. Public Hearing Scheduled for April 8, 2015				Site Visit - June 20, 2014 - gathered information in support of permit application review.		
8	Asheville Power Station	Addition Information Request sent - Aug 26, 2014; - Add Info (email) - Sept. 3, 2014 - Add Inf Received - Sept 18, 2014	- Application Received - July 31, 2014 - Monitoring Data - October 30, 2014	In Review					Site Visit - August 27, 2014 - gathered information in support of permit application review.		
9	Cape Fear Power Station	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	Application Received - July 31, 2014	- Internal Draft Permit - Waiting for Dept. AOG input on coal pile cleanup coverage.							

10 Sutton Power Station	<p>- Letter from Dept Feb 6, 2015 indicating Dept moving forward to draft NPDES permits.</p> <p>- Letter from Duke - February 23, 2015 - indicate all flow to effluent channel and covered by wastewater permit.</p>	<p>- Duke has Challenged Ruling on Waters of the State for Sutton Lake. Will Impact Determination on Need for a Stormwater Permit.</p> <p>- Reviewing Feb. 23rd letter on permit applicability.</p> <p>- Site Visit - March 19, 2015 - Gather information on needs for permit coverage for various stormwater outfalls.</p>
11 Mayo Power Station	<p>- Application Received October 16, 2014.</p> <p>- Data submittal January 20, 2015</p>	In Process for Review
12 Roxboro Power Station	<p>- Application Received - December 15, 2014</p>	In Process for Review
13 Weatherspoon Power Station	<p>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</p>	NPDES Stormwater Permit Not Required at This Time
14 H.F. Lee Power Station	<p>Permit Status Letter Received - October 16, 2014</p>	No Stormwater Point Source - may need additional site visit

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

Central Office Mining

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	Bellevue 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												
14	H.F. Lee Power Station												

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