

# North Carolina Department of Environmental Quality

Pat McCrory  
Governor

Donald R. van der Vaart  
Secretary

November 30, 2015

## MEMORANDUM

TO: ENVIRONMENTAL REVIEW COMMISSION  
The Honorable Brent Jackson, Co-Chairman  
The Honorable Jimmy Dixon, Co-Chairman  
The Honorable Mike Hager, Co-Chairman  
The Honorable Chuck McGrady, Co-Chairman

FROM: Matthew Dockham  
Director of Legislative Affairs

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

DATE: November 30, 2015

Pursuant to S.L. 2014-122, Section 3(a), the Department shall submit quarterly written reports to the Environmental Review Commission and the Coal Ash Management Commission 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, NCDEQ  
Tracy Davis, Director of Energy, Mineral, and Land Resources, NCDEQ  
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**Quarterly Report  
to the Environmental Review Commission  
on Operations, Activities, Programs and  
Progress Relating to Coal Combustion  
Residuals Surface Impoundments**

**September 30, 2015**

This report is submitted to meet the requirements of S.L. 2014-122, 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**

Per the Duke Energy website, they provide an up-to-date inventory of the amounts of coal ash stored at each of their 14 facilities. The website is <https://www.duke-energy.com/pdfs/duke-energy-ash-metrics.pdf>. The following is a brief summary of the tonnage as reported on September 11, 2015:

Total Ash Inventory in Basins:	110,270,000 tons
Total Ash Inventory in Landfills:	26,500,000 tons
<u>Total Ash Inventory in Fills:</u>	<u>22,060,000 tons</u>
<b>Total Volume of Ash at all 14 Facilities:</b>	<b>158,830,000 tons</b>

#### **Coal Ash Moved to Date**

Asheville- 350,000

Riverbend- 30,000

### **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 has also sampled 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 date of this report, 403 well owners were sent their results along with the health risk evaluation. This number includes well results sent to well owners for initial well tests and results sent to well owners who had their wells retested as per a recommendation from the OEEB.

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. To evaluate potential health concerns associated with the sample results, DWR submitted the laboratory results to the OEEB for a HRE. A total of 24 wells were sampled and the results along with the HREs were sent to the well owners.

#### 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.

#### Comprehensive Site Assessments

Conditional letters of approval for the 14 coal ash facilities were sent to Duke Energy in February and March of 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. As of September 9, 2015, Duke has submitted comprehensive site assessment (CSA) reports for all 14 facilities. Per CAMA, corrective action plans are due no later than 90 days from the submittal of the CSA reports or a timeframe otherwise approved by DENR not to exceed 180 days from submission of the CSA reports. The CSA reports have been posted to the DENR website under:

[http://portal.ncdenr.org/web/guest/coalashnews/-/blogs/denr-posts-groundwater-assessment-reports-for-three-duke-energy-facilities? 33 redirect=%2Fweb%2Fguest%2Fcoalashnews](http://portal.ncdenr.org/web/guest/coalashnews/-/blogs/denr-posts-groundwater-assessment-reports-for-three-duke-energy-facilities?_33_redirect=%2Fweb%2Fguest%2Fcoalashnews)

#### 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).

On June 9, 2015, DENR sent Duke Energy a Notice of Regulatory Requirements (NORR) for increased levels of boron detected in off-site private water supply wells near the Sutton facility in Wilmington. The NORR directed Duke Energy to take immediate action to control and prevent further migration of coal ash contaminants and ensure the protection of the existing water supply wells. On July 9, 2015, Duke Energy submitted a response to the NORR and included a Groundwater Mitigation and Monitoring Plan.

On August 18-19, 2015, staff from the DWR and Division of Waste Management participated in a *“Introduction to Metals Groundwater Geochemistry”* class hosted Bill Deutsch, a groundwater geochemist with over 30 years of experience. The class was specifically tailored to the metals contamination resulting from coal ash ponds.

### **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.

DWR will continue to modify NPDES permits for Duke's remaining 11 facilities by the end of 2015. The following events have occurred since the last quarterly report:

- 1) The Hearing Officer Report was developed for Riverbend facility on May 22, 2015.



- 2) The DWR sent a Proposed Draft Final Riverbend Permit to EPA that incorporated all EPA and Hearing Officer Recommendations on May 26, 2015.
- 3) The EPA sent a comment letter to DENR on the Proposed Draft Final Riverbend Permit on June 10, 2015. This letter included a comment that created an intractable situation that DENR, EPA, and USACOE have been trying to resolve. The situation is based on the fact that seeps at each site is a complex mixture of wastewater percolated through the dams and jurisdictional waters. Separating these two different kind of seeps is extremely difficult. There are several approaches being discussed to address the issue.
- 4) The Public Hearing for L.V. Sutton Energy Complex was held on August 6, 2015. The Division is developing the Hearing Officer Report.

#### 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 affect 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:** Samples collected from January 1, 2015, through July 31, 2015, include 135 samples that have been collected for quantification of up to 7 different analytes, resulting in 392 discrete data points. No increases in coal ash related contaminants were documented. An additional 14 samples were collected in August and submitted for quantification of up to 7 different analytes, which are expected to result in 42 discrete data points. Analytical results for August samples are currently under review and have not yet been released.

**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. In January 2015, 61 samples from the third round fish tissue assessment (November and December, 2014 collections) were processed for quantification of 16 different analytes, resulting in 976 discrete data points. Results for the third round of sampling are similar to baseline data and historical data. Round four fish tissue samples were collected from Mid-April to early May 2015, and then processed for assessment during June. Fourth round sampling resulted in 108 samples for quantification of 16 different analytes, which are expected to result in 1,728 discrete data points. Analysis has been completed for approximately half of the round four samples, and final results are not yet available.

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

Division of Waste Management  
September 2015

### **Industrial Coal Ash Landfills in North Carolina**

The North Carolina Division of Waste Management Solid Waste Section (Section) regulates industrial coal ash landfills in accordance with 15A NCAC 13B .0503, .504 and .0505. The Section currently oversees nine (9) permitted industrial coal ash landfills and two (2) closed industrial landfills. Inspections have been conducted at all active and inactive landfills within the past year.

## Landfills

- Duke Energy Carolinas Allen Steam Station – Gaston County
  - Active coal fired plant
  - 3612-INDUS-2008: Retired Ash Basin Landfill (open, double lined, landfill constructed on top of retired ash basin)
- Duke Energy Progress Asheville Steam Electric Plant - Buncombe County
  - Active coal fired plant
  - Ash from 1982 ash basin to be moved to Asheville Airport Structural Fill
  - CAMA requires all ash be moved to lined facility by 2019
  - Duke has indicated no future plans for onsite landfill
  - Duke has indicated they will build a new gas fired power plant in the area of the existing 1982 ash basin after it has been excavated.
- Duke Energy Carolinas Belews Creek Steam Station – Stokes County
  - Active coal fired plant
  - 8503-INDUS-1984: Pine Hall Rd Landfill (closed, unlined)
  - 8504-INDUS: Craig Rd Landfill (open, lined)
    - Phase 2 (Approximately 35 acres) PTC issued May 18, 2012
    - Phase 2 Permit to Operate (PTO) issued January 16, 2014
  - 8505-INDUS: Flue Gas Desulfurization (FGD) Landfill (open, lined)
    - Past 12 months facility has been mining gypsum from LF to meet wallboard production needs, thus increasing landfill capacity
- Duke Energy Carolinas Buck Steam Station – Rowan County
  - Retired coal fired plant
  - Converted to combined cycle turbine
  - No solid waste facilities
- Duke Energy Progress Cape Fear Steam Electric Plant – Chatham County
  - Retired coal fired plant
  - No electricity production (plant to be demolished)
  - No solid waste facilities exist
  - Duke has indicated that they might potentially excavate ponds and transfer to Brickhaven structural fill.
- Duke Energy Carolinas Cliffside Steam Station\Rogers – Rutherford County
  - Active coal fired plant

- 8106-INDUS-2009: Landfill (open, lined)
    - ▣ Phase 2 (approximately 15 acres) PTC issued March 19, 2014
- Duke Energy Carolinas Dan River Steam Station – Rockingham County
  - Retired coal fired plant
  - Converted to combined cycle turbine
  - CAMA requires all ash be moved to lined facility by 2019
  - Permit to construct on site landfill under review as of Sept 1, 2015. Dan Rivers has received site suitability approval. Dan River’s permit to construct application is under review. Rail construction at Dan River is underway. Once an industrial stormwater permit is issued, Duke has indicated that they will move ash from a dry stack to the Waste Management landfill in Jetersville, Virginia.
- Duke Energy Progress H.F. Lee Steam Electric Plant – Wayne County
  - Retired coal fired plant
  - Converted to combined cycle turbine
  - No solid waste facilities
- Duke Energy Progress Mayo Steam Electric Plant – Person County
  - Active coal fired plant
  - 7305-INDUS-2012: Landfill (open, double lined)
    - Phase 1 (~ 31 acres) PTC issued July 19, 2012
    - Phase 1 PTO issued July 10, 2014
- Duke Energy Carolinas Marshall Steam Station – Catawba County
  - Active coal fired plant
  - 1804-INDUS-1983: Dry Ash Landfill (closed, unlined)
  - 1809-INDUS: FGD Landfill (open, lined)
    - Duke has indicated no plan to expand FGD (flue gas desulfurization) landfill
    - Duke has indicated its plan to close the FGD landfill after current capacity is filled, Oct 2015.
    - Ash is currently being received from Riverbend dry stacks.
    - 1812-INDUS-2008: Industrial Landfill #1 (open, double lined, Landfills constructed partially on top of retired ash basin)
    - Application for permit renewal of current permits due in September
- Duke Energy Carolinas Riverbend Steam Station – Gaston County
  - Retired coal fired plant
  - No electricity production (plant to be demolished)
  - CAMA requires all ash be moved to lined facility by 2019

- No SW facilities
- No current viable option for onsite landfill
- Duke has indicated its plans for the ash to be transferred to the permitted structural fills.

Duke has instituted transfer of coal ash from a dry stack at the Riverbend Steam Station since the passage of CAMA. Approximately 1000 tons per day is being moved. Most of this ash is being moved to the Marshall Steam Station landfill, permit no. 1809. The remainder is being moved to Waste Management Corp.'s Homer, Georgia landfill.

- Duke Energy Progress Roxboro Steam Electric Plant – Person County
  - Active coal fired plant
  - 7302-INDUS-1988: Landfill (open, lined, constructed partially on top of retired ash basin) \*
    - Phase 6 (Approximately 22 acres) PTC issued October 8, 2013
    - Phases 1-6 PTO issued February 9, 2015

- Duke Energy Progress Sutton Steam Electric Plant – New Hanover County
  - Retired coal fired plant
  - Converted to combined cycle turbine
  - CAMA requires all ash be moved to lined facility by 2019
  - Duke has indicated that up to two million tons of ash to may be transferred to Brickhaven and Colon
  - Onsite landfill permit to construct under review

Staff met onsite to discuss landfill March 4, 2015. Sutton has received site suitability approval. Landfill permit applications have been submitted for the Sutton Station. The determination of completeness of the permit to construct application for Sutton was issued September 4, 2015 and the technical review of the application continues. Draft permit anticipated to be released before the end on November 2015. Design changes to the plans prior to issuance are expected. Sutton Plant is moving ahead with rail expansion in anticipation of moving ash to Brickhaven.

- Duke Energy Progress Weatherspoon Steam Electric Plant – Robeson County
  - Retired coal fired plant
  - No electricity production (plant to be demolished)
  - No solid waste facilities
- Westmoreland Partners, Roanoke Valley Energy Plant – Halifax County
  - Active coal fired plant
  - 4204-INDUS-1994: Halifax County Coal Ash Landfill (open, lined)

## **Environmental Groundwater Assessments at Landfills**

Landfills undergo routine monitoring on a semi-annual basis to make sure groundwater contamination does not exceed the 15A NCAC 2L standards at the compliance boundary, which is a maximum of 250 feet from the edge of waste. If groundwater contamination is found to exceed the 15A NCAC 2L standards at or beyond the compliance boundary, the facility must undergo an environmental assessment.

- Five landfills underwent environmental assessment (Permits 1804, 1809, 8503, 8504, and 8505)
- Four landfills (1804, 1809, 8503 and 8504) have completed their environmental assessments
- Four landfills (1804, 1809, 8503 and 8504) reported that the landfill was not cause of the 2L groundwater exceedances. Reports were found to be acceptable by DWM that the exceedances were a result of background levels of the contaminants or were a result of sampling problems which were corrected in subsequent sampling events.
- One landfill (Permit 8505) is still undergoing assessment
- No landfills are undergoing corrective action

### **Groundwater Assessment History**

- November 9, 2011 – Section issued letter requesting groundwater assessment 1804, 1809, 8503, 8504 and 8505
- February 9, 2012 - Duke submitted Groundwater Assessment Workplans
- February 20, 2012 - Section approved workplan for 1809
- March 23, 2012 - Section approved workplans for 1804, 8503, 8504 and 8505 ☐ July 12, 2012 – Duke submitted Groundwater Assessment Report for 1809
- October 1, 2012 – Duke submitted Groundwater Assessment Report for 8503
- October 5, 2012 – Duke submitted Groundwater Assessment Report for 8505
- December 21, 2012 - Duke submitted Groundwater Assessment Reports for 1804 and 8504
- June 4, 2014 - - Duke submitted Supplemental Groundwater Assessment Reports for 8505

## **Structural Fills**

- Brickhaven No. 2, Mine Track “A” Structural Fill – Chatham County
  - 1910-STRUC-2015
  - Beneficial reuse mine reclamation
  - Owned/operated by Charah, Inc.
  - 145 acres
  - 12.5 million tons of ash
  - Approximately 8 years to complete

- Permit application allows that ash may be received from any Duke facility
  - Currently Duke has indicated that ash is anticipated to be transported from the Duke Sutton and Riverbend Plants
  - Permit to construct issued June 5, 2015 and may be completed and able to receive ash starting early October 2015.
  - Sutton Plant is moving ahead with rail expansion in anticipation of moving ash to Brickhaven.
- Colon Mine Site Structural Fill – Lee County
    - 5306-STRUC-2015
    - Beneficial reuse mine reclamation
    - Owned/operated by Charah, Inc.
    - 118 acres; 8.87 million tons of ash
    - Approximately 5 years to complete
    - Permit application allows that ash may be received from any Duke facility
    - Ash origination is unknown at this time and will be dependent on the construction completion date
    - Permit to construct issued June 5, 2015
    - Construction has not started as of September 15, 2015

The Brickhaven and Colon Mine structural fills were issued permits in accordance with CAMA. Construction of Phase 1, Cell 1 at Brickhaven is nearing completion and construction quality assurance (CQA) documentation will be submitted for review in September. The rail siding at Brickhaven is under construction. Charah's current goal is to begin placing coal ash from Riverbend in October. The first loads will be by truck, not rail. There has been no construction activity at the Colon site to date.

The application for the Area 2 structural fill at the Asheville Airport was put on hold by Charah.

Duke continues to move ash from the pond at the Asheville power plant to the Asheville Airport structural fill areas 1, 3, and 4 under the existing DWR permit. Areas 1, 3, and 4 are nearing completion/capacity.

An inventory of the structural fills as required by the Session Law can be found at: <http://portal.ncdenr.org/web/wm/sw/ccb>. Session Law 2014-122 mandated that no structural fills were to be constructed. On August 1, 2015 that moratorium was ended. At this time there have not been any notification received by the Department concerning a proposed structural fill.

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 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 Allen Steam station. <b>A Request received for Representative Outfall Status on Aug 20-2015.</b>	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-016 NOD 6/13/14. Duke letter 6/26/14. Duke letter 7/30/14. GASTO-016 letter 8/11/14. GASTO-061 letter 8/11/14. Duke letter 8/22/14. <b>Repair plan , GASTO-016, 061 comments sent to Raleigh on Aug. 10, 2015, and Aug. 14, 2015, Aug. 27, 2015, Aug. 28, 2015. Install Instrumentation, completion Report sent to Raleigh on Aug. 27 and 28, 2015, ROWAN-047 NOD 6/13/14. ROWAN-069 NOD 6/13/14. ROWAN-070 NOI 6/13/14. Duke letter 6/26/14. 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. ROWAN-047 - Assessment of Internal Spillway Video Inspection on Aug. 6, 2015. Repair Plan for ROWAN-047 comments sent to Raleigh on Aug. 27, 2015. As-Built Inspection to Install Instrumentation on Sep. 9, 2015.</b>	GASTO-016, GASTO-061 repair plans due 9/26/14. <b>Repair Plan completion Report Scope 2 due on Sep. 29, 2015.</b>	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, GASTO-016, GASTO-061. Response Letter of NOI from Duke, H & H Analysis got GASTO-061, Request of Leachate Flow Meter Installation. Submittal of Spillway Improvement for GASTO-016. Repair Plan review and comments to Raleigh. GASTO-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 Dam Embankment site improvements comments. Instrumentation at Buck Steam Station comments. Compliance with RAI/revision request for Rowan-069. Piezometer Installation for ROWAN-047, 068, -070, and 071 Package review and comments to Raleigh. Excavation of Pipes and investigation at ROWAN-068. Repair plan for Scope 4 F	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. <b>GASTO- 061 and 016 Field As-built for Instrumentation completion 8-19-15.</b>	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; <b>Sediment Inspection completed on 8-13-15 GASTO-2009-001 landfill 2-3, in compliance.</b>
3	Buck Steam Station			<b>Stormwater Hearing for SW permit on Sep. 10, 2015.</b>	SW Inspection Pre-permit completed on Sep. 10, 2015	Vegetation Removal comments to Raleigh on Aug. 28, 2015, Repair plan sent comments to Raleigh on Aug. 27, 2015, As-Built inspection for completion of Install Instrumentation on Aug. 27, 2015, AS-Built inspections for RUTHE-070,072 on Aug. 27, 2015. Repair plan comments sent to raleigh on Sep. 10, 2015	ROWAN-047, ROWAN-069 repair plans due 9/26/14. ROWAN-070 repair plan due 10/13/14.	8-20-15 Field asbuilts Cleve-049 IAB Downstream Dam Completion of repairs scope 2, Ruthe-070 IAB Main Dam Completion of repairs Scope 4, Ruthe-070-072 Instrumentation completion, Cleve-047-049-050 Instrumentation completion, Ruthe-072 IAB5 Saddle Dam Completion of repair.	Buck Steam Station Coal Yard 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-2015-012, issued 2/9/15; Buck Steam Station Pond #3 Embankment BUC-7 Site Improvements, ROWAN-2015-009, Revised plan issued on Jan. 22, 2015; ROWAN-2015-013, issued 2/18/15; Buck Combined Cycle Station Ash Basin Groundwater Assessment, ROWAN-2015-014, issued 3/25/15; Sediment Inspection, ROWAN-2014-007, Buck Steam Station Coal Yard Reclamation on Jan 26, 2015 by SBG, Sediment Inspection, ROWAN-2014-009, Buck Steam Station Fencing Project on Jan 26, 2015 by SBG, Sediment Inspection, ROWAN-2015-005, Buck Combined Cycle Station Raw Water Supply and Wastewater Discharge on Jan 26, 2015 by SBG. Sediment Inspection. ROWAN-2015-009. Duke Energy	6-24-15 Inspections of Cleve-2014-011 SS Decommissioning, minimal exposure, IC , Cleve-2013-025 CCP Landfill Phase 2, IC. Ruthe-2009-005 Joint with 2013-025, IC 8-12-15 Cleve-2015-012 RCAB Building Completed project closed. Cliffside Steam Station Unit 1-4 Ash Basin Dam (CLEVE-047) - Vegetation Removal, A/M issued 8/10/2015; Dry Fly Ash Conversion - Cliffside, CLEVE-2016-006, A issued 8/28/2015; Cliffside Steam Station Unit 1-4 Basin Dam (CLEVE-047) - Vegetation Removal, A-M issued 9/11/2015; 7-21-22 Broad river Dredge Plan review, August 28 Dry Ash Conversion ESC plan approval Cleve-2016-006
4	Cliffside Steam Station						Repair Plan received on Sep. 3, 2015.			
5	Dan River Steam Station			<b>Stormwater Hearing for SW permit on Sep 8, 2015.</b>	<b>Stormwater Hearing Pre-Inspection for SW permit on Aug 25,</b>					



6 Marshall Steam 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.

**6/20/14 - site visit with RCO permitting staff to review submitted application info; 7/15/14 - site visit for newly found stormwater pipe evaluation.**

GASTO-098 Pipe NOD 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

EAP under review. EAP reviewed for all dams. Review of Letter of Compliance regarding NOD GASTO-098, Ash basin dam # 2. Instrumentation Installations for Riverbend Steam Station letter and plan review and comments to Raleigh. GASTO-097 Piezometer installation review and Comments to Raleigh. Repair Plan comments Regarding GASTO-098 to Raleigh. **Waiver Requests comments sent to Raleigh on July 22, 2015. Repair plan Addendum 1 Scope 1 sent comments to Raleigh on Aug. 24, 2015**

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 **As-Built Inspections for Completion of repair on Sep. 8, 2015. Gasto 097-098-099 Instrumentation completion (Engineers Cert) 8-25-15 Gasto-098 Secondary Ash Basin Repair plan Add 1 Scope1**

6/15/2015 Cataw-2014-009 Unit 1-4 Downstream erosion request to remove basin (denied due to insufficient groundcover-was not matured enough at this time) 8-13-15 woking on Slope groundcover, 9-2-15 Concrete Flume completed. Site is IC. **Marshall Steam Station Sypsum Stackout Modifications, CATAW-2016-003, A/M issued 9/11/2015**

Only15.5, 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 Railline 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, Meeeting at site for tree cutting permit only. April 1, 2015-GASTO-2015-012, Meeeting at site for tree cutting permit only. April 1, 2015-GASTO-2015-018, Meeeting at site for Grounwater Assessment to document NPDES only. April 1, 2015-GASTO-2015-022, Meeeting at site for tree cutting permit only. **Riverbend Steam Station Ash Basin Groundwater Assessment, revised GASTO-2015-018, A/M issued 7/15/2015; Riverbend Steam Station Demolition -**

7 Riverbend Steam Station

Two Repair pland for CATAW-054, Scope 4 and 5 received Aug. 27, 2015 and suspense date is Sep. 15, 2015.

Install Instrumentation Completion Report review comments to Raleigh July 20, 2015.

**Asbuilt 9-2-15 Cataw-054 Instrumentation Completion.**







cape fear plant continued

\*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. 7/29/15 electronic report received- Cape Fear Ash Basin Dams Vegetation Removal - CHATH-075, CHATH-076, CHATH-077, CHATH-078 8/7/15- CHATH-078 Cape Fear Revision 1 to Scope 1 8-14-15 Roxboro West Ash Pond Dam PERSO-038 and West Ash Pond South Rock Filter Dam PERSO-039 Application for Dam Modification Rev 1 to Scope 1

\*6/10/15- inspection of CHATH-077. Continues to appear stable. Fiberglass outlet pipe requires repair (plan in progress). Currently no problems noted \*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). 7/30/15- risk classification Assessment inspection of chath-075, Chath-076, CHATH-077, CHATH-078, CHATH-079. 7/30/15 As built inspection for Repair of Slope CHATH-079. Slope repair complete. CHATH-078- rip rap work in progress, riser not yet repaired. CHATH-077- no change/repair to pipe not started yet.

cape fear plant continued

10 Sutton Power Station

\*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. \*Revised O&M Manual Received 5/18/15. 8-20-15 Mayo Ash Pond Dam  
 \*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 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.

8/19/15 joint site visit for Risk Classification Assessment of PERSO-035, PERSO-036, PERSO-037, PERSO-034

11 Mayo Power Station

\*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.  
 \*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.  
 \*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. \* Letter of receipt of Roxboro West Ash Basin Dam - scopes 1 & 2 PERSO-038 sent by CO received 03/05/2015

\*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. \*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.

\*Revised O&M Manual Received 5/18/15. 9-8-15 Roxboro PERSO-013 Request for Piezometer Installation (under reviews)

\*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.  
 8/19/15- Site visit for Risk Classification Assessment on dams PERSO-033, PERSO-038, PERSO039, PESO-040, PERSO-041, PERSO\_042, PERSO-043

\*PERSO-2015-006 S&E Approval issued 3/27/15. \*PERSO-2015-008 S&E Approval issued 5/22/15.

12 Roxboro Power Station  
13 Weatherspoon Power Station

14 H.F. Lee Power Station

15 Brickhaven No 2, Tract "A"	*6/1/15 - NOV issued to Green Meadow LLC and Moncure Holdings LLC regarding Rail Spur to extend from mine site.	8/20/2015-received 24 hour notification from Brickhaven that during a skimmer failure, approximately 20,000 gallons of water in exceedence of NTU standards was released. The riser was blocked and repairs were made within 24 hours.	*5/29/15 Site inspection at rail spur easement beyond the mine found no permit since no S&E Approval had been Obtained.	9/1/2015- Permit Modification for the Rail Spur approved.	7/28/15 Site inspection-Adequate sediment controls were not provided in accordance with the current approved plans in the vicinity of the outlet for sediment basin 7. A small amount of off site sediment was observed. 7/29/15 -Mine inspection report sent . Request to repair area required. 7/30/15-Area reported to be repaired and re-inspected by Land Quality to confirm repair . Adequate repair of slopes in vicinity of basin 7.
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				9/9/15-Site meeting and inspection. No coal ash construction has started at this facility as of this date. Some slope repair has been done on slopes previously disturbed by former land owner (General Shale). No problems noted.

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)	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			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 Allen Steam station. <b>Request received for Representative Outfall Status on Aug 20-2015.</b>									
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)						<b>S&amp;ME Toe Drain Repair Modifications Received FRO June 17, 2015</b>



Response to NOI from Duke Energy received 2/9/2015 with supporting documentation  
AMEC Application for Dam Modification Received FRO June 26, 2015

Weatherspoon Ash Pond Modification Sediment and Vegetation Removal and Spillway Erosion Control Plan/ Construction  
Sediment and Construction Stormwater ROBES-2016-007 Approved August 14, 2015

Letter from Duke Energy Notification of Vegetation Removal on Ash Basins Received August 3, 2015  
S&ME Construction Certification Report Ash Basin Dam (Upstream Slope Repairs) Received by FRO August 25, 2015

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 - 12/19/1- 11/21/2014 Pending - waiting additional infor  
Brickhaven #2 - ADI letter sent -12 11/21/2014 Pending - waiting additional infor

12/5/2014  
12/5/2014

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)	Erosion Control Plan
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 Allen Steam station. <b>A Request received for Representaive Outfall Status on Aug 20-2015.</b>						
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					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			8/18/2015 E&SC Plan Vegetative Slope Stabilization at Active Ash Pond

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



<b>Plant Name</b>		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	Dam Safety List of Inspections Performed by Central Office
<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; RevReq sent 10/30/14 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 COAR issued on 4/1/15	EAP rec'd 7/31/14; RevReq sent 10/30/14; Scopes 1&3 COAR issued 12/5/14; Scopes 2&4 COAR issued on 4/1/15	August through September - Inspected for Analysis of Risk per Statute
GASTO-016	Allen Retired Ash Basin Dam			4/8/2015, Staff from DEMLR participated in public hearing for Stormwater		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 4 Rev Req sent 4/2/15; Scope 4 Rev Req #2	10/30/14; Scopes 1,2,&3 COAR issued 12/8/14; Scope 4 Rev Req sent 4/2/15; Scope 4 COAR issued 6/2/15	August through September - Inspected for Analysis of Risk per Statute
<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;	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 issued 1/30/15; Scope 3 RevReq sent 1/27/15; Scope 3 COAR issued 2/13/15;	10/30/14; Scope 1&3 COAR issued 1/30/15; Scope 3 RevReq sent 1/27/15; Scope 3 COAR issued 2/13/15; Scope 4 COAR issued 4/1/15; Spillway Variance issued 5/5/15	August through September - Inspected for Analysis of Risk per Statute
<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; RevReq sent 10/30/14; 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 COAR issued 2/13/15; - Submitted to DENR on Aug 18, 2015	EAP rec'd 7/31/14; RevReq sent 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; Scope 2 COAR issued 2/13/15	August through September - Inspected for Analysis of Risk per Statute
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	August through September - Inspected for Analysis of Risk per Statute
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	August through September - Inspected for Analysis of Risk per Statute
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 -Downstream slope drainage improvements As-built/s submitted to DENR on August 13, 2015	EAP rec'd 7/31/14; RevReq sent 10/30/14; EAP rec'd 1/29/15; EAP pending review; Scope 1 COAR issued 12/22/14	August through September - Inspected for Analysis of Risk per Statute

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	August through September - Inspected for Analysis of Risk per Statute
<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; 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; Scope 1 COAR issued 2/2/15; Scope 2 determined as	August through September - Inspected for Analysis of Risk per Statute
RUTHE-072	Cliffside Inactive Ash Basin #5 Saddle Dam	N/A	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 -Repair of spot seepage As-builts submitted to DENR on August 13, 2015	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	August through September - Inspected for Analysis of Risk per Statute August through September - Inspected for Analysis of Risk per Statute
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	August through September - Inspected for Analysis of Risk per Statute
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; RevReq sent 10/30/14 NOD/NOI response rec'd 9/26/14; Scope 1 COAR issued 3/12/15; Scope 2 rec'd 2/23/15; Scope 2 COAR issued 3/17/15 - Alternative Spillway Plan Submitted to DENR on Aug 18, 2015 -• As-builts submitted to DENR on August 13, 2015	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	August through September - Inspected for Analysis of Risk per Statute
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; RevReq sent 10/30/14; Scope 1&2 rec'd 9/30/14; Scope 2 COAR issued 1/26/15; Scope 1 COAR issued 3/17/15 -• Engineering plans for removal of toe drains submitted to DENR on July 29, 2015 -• Maintenance Intake Dredging Submitted to DENR on July 17, 2015 • PWCM issued July 21, 2015 for maintenance dredging	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	August through September - Inspected for Analysis of Risk per Statute
<b>Dan River Steam Station</b>					
ROCKI-237	Dan River Active Primary Ash Basin	N/A	EAP rec'd 7/31/14; RevReq sent 10/30/14; Scopes 1, 2, & 3 work was completed by using emergency dam safety order; Scope 4 COAR issued on 4/1/15; Scope 5 COAR issued 5/8/15; Scope 6 PWCM issued on 5/28/15; Scope 2 - Exploratory work COAR issued 6/2/15 -Plug of 54" SW pipe COFA issued July 9, 2015	EAP rec'd 7/31/14; RevReq sent 10/30/14; Scopes 1, 2, & 3 work was completed by using emergency dam safety order; Scope 4 COAR issued on 4/1/15; Scope 5 COAR issued 5/8/15; Scope 6 PWCM issued on 5/28/15, Scope 2 - Exploratory work COAR issued 6/2/15	August through September - Inspected for Analysis of Risk per Statute
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; RevReq sent 10/30/14 NOD/NOI response rec'd 9/26/14; Scope 1 COAR issued 12/5/14; Scope 3 PWCM	EAP rec'd 7/31/14; RevReq sent 10/30/14; Scope 1 COAR issued 12/5/14; Scope 2 not rec'd; Scope 3	August through September - Inspected for Analysis of Risk per Statute
ROCKI-241			-Slipline plan for 300' of discharge pipe H25 Resubmitted on August 3, 2015		

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	Modification plan rec'd 6/11/14; EAP rec'd 7/31/14; RevReq sent 10/30/14 Repair plan rec'd 8/26/14; Scope 3 COAR issued 9/18/14; Scopes 1&2 rec'd 10/13/14; Scopes 1 COAR issued 12/10/14; Scopes 2 COAR issued 12/15/14; -Shallow slope stability concerns plan 8/27/15; - Modification plan of Principal spillway 8/27/15	EAP rec'd 7/31/14; RevReq sent 10/30/14; EAP rec'd 12/2/14; EAP pending review; Scope 3 COAR issued 9/18/14; Scopes 1 COAR issued 12/10/14; Scopes 2 COAR issued 12/15/14	August through September - Inspected for Analysis of Risk per Statute
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 - Waiver on time to drain 8/6/15	EAP rec'd 7/31/14; RevReq sent 10/30/14; EAP rec'd 12/2/14; EAP pending review	August through September - Inspected for Analysis of Risk per Statute
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; RevReq sent 10/30/14 NOD response received 9/26/14; Scope 1 COAR issued 12/5/15; Scope 2 determined to not be required; Scope 3 COAR issued 4/10/15 ; -Abandon horizontal outlet pipe plan 8/6/15	EAP rec'd 7/31/14; RevReq sent 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 4/10/15	August through September - Inspected for Analysis of Risk per Statute
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	August through September - Inspected for Analysis of Risk per Statute
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	August through September - Inspected for Analysis of Risk per Statute
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 - • Submitted to DENR on Aug 5, 2015 • PWCM email sent on Aug 17, 2015	EAP rec'd 7/31/14; RevReq sent 10/30/14	August through September - Inspected for Analysis of Risk per Statute
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 - • Submitted to DENR on July 29, 2015	Scope 1 COAR issued 3/6/15	August through September - Inspected for Analysis of Risk per Statute
CHATH-076	Cape Fear 1963 Ash Pond Dam (Inactive)	N/A	• Submitted to DENR on July 29, 2015		August through September - Inspected for Analysis of Risk per Statute
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 -• Submitted to DENR on July 29, 2015	Scope 1 COAR issued 3/12/15	August through September - Inspected for Analysis of Risk per Statute
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; RevReq sent 10/30/14 NOD/NOI response received 9/26/14; Scope 1 COAR issued 1/22/15; Scope 2-1 rec'd	EAP rec'd 7/31/14; RevReq sent 10/30/14; EAP rec'd 12/2/14; EAP pending review; Scope 1 COAR issued	August through September - Inspected for Analysis of Risk per Statute

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; 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; Scope 3 proceed with work w/o COAR 9/15/14; Scope 4 rec'd 10/15/14; Scope 4 RevReq sent 2/9/15; Scope 4 COAR issued 3/6/15; Interim Final Approval of Phase 1 issued on 4/14/15; Scope 2 Addendum 1 COAR issued 5/8/15; EOR change issued 5/20/15 -> Remediation of upstream slope As-builts submitted on July 24, 2015 -> 36"RCP Transmittal to DENR on Sept 15, 2014, confirming work will proceed without a COAR required	EAP rec'd 7/31/14; RevReq sent 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 RevReq sent 2/9/15; Scope 4 COAR issued 3/6/15; Scope 2 Addendum 1 COAR issued 5/8/15; EOR change issued 5/20/15	August through September - Inspected for Analysis of Risk per Statute
<b>Sutton Power Station</b>					
NEWH-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; Telestack conveyor system plan 8/6/15	EAP rec'd 7/31/14; RevReq sent 10/30/14; EAP rec'd 12/2/14; EAP pending review	August through September - Inspected for Analysis of Risk per Statute
NEWH-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; 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	August through September - Inspected for Analysis of Risk per Statute
<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; RevReq sent 10/30/14 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 - New Spillway plans submitted on 7/1/15 and 8/20/15	EAP rec'd 7/31/14; RevReq sent 10/30/14; Scope 1 COAR issued 1/22/15; Scopes 2&3 RevReq sent 2/5/15; Scopes 2&3 COAR issued 3/6/15	August through September - Inspected for Analysis of Risk per Statute
<b>Roxboro Power Station</b>					
PERSO-038	Roxboro West Ash Pond Dam	N/A	EAP rec'd 7/31/14; RevReq sent 10/30/14; plans for Scopes 1&2 rec'd on 2/25/15; RevReq sent on 4/2/15 for Scopes 1&2; EAP rec'd 7/31/14; RevReq sent 10/30/14	EAP rec'd 7/31/14; RevReq sent 10/30/14; RevReq sent on 4/2/15 for Scopes 1&2; Scopes 1&2 COAR issued 10/30/14; RevReq sent 12/11/14; Scope 2 not rec'd yet	August through September - Inspected for Analysis of Risk per Statute
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	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	August through September - Inspected for Analysis of Risk per Statute
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	August through September - Inspected for Analysis of Risk per Statute
<b>Weatherspoon Power Station</b>					

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; RevReq sent 10/30/14 Repair as-builts rec'd 9/5/14; NOD response rec'd 9/26/14; Scopes 1,2,&3 COAR issued 1/22/15; Scope 4 rec'd 2/5/15; Scope 4 COAR issued 3/6/15; -Amend scope 1 plan with new spillway COAR 7/29/15; -Vegetation removal plan submitted on 7/29/15	Repair plans approved 6/27/14; EAP 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 1/22/15; Scope 4 COAR issued 3/6/15	August through September - Inspected for Analysis of Risk per Statute
<b>H.F. Lee Power Station</b>					
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	COAR issued 1/22/15; Scopes 2&3 COAR issued 1/29/15; Scope 1 Addendum 1 received 5/21/15 -Alternative Spillway Plan Submitted to DENR on July 22, 2015 - Plan to remove trees Submitted to DENR on July 8, 2015	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	August through September - Inspected for Analysis of Risk per Statute
		N/A	Plan rec'd 10/13/14 for Scope 1; Notice to proceed as an exempt dam issued on May 7, 2015	Scope 1 pending review; 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	Scopes 1, 2, & 3 pending review; 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	Scopes 1 & 2 pending review; Notice to proceed as an exempt dam issued on May 7, 2015	
Wayne-032			Jurisdictional Determination - Geotech investigation • Submitted to DENR on July 21, 2015		



DENR/DEMLR Quarterly Report on Coal Ash Management Activities due to the ERC  
June 2014 - September 2015

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	- Letters and emails from Duke Energy describing new outfalls and requesting coverage under NPDES SW permit - August 2015	- Application Received - October 1, 2014 - Amended App - October 24, 2014 - Second Amendment - Nov 19, 2014 - Monitoring Data - December 18, 2014	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 Allen Steam station. <b>A Request received for Representaive Outfall Status on Aug 20-2015.</b>	Site Visit - March 24, 2015 - verify information from application submittal and help finalize permit requirements				
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) - Railroad Cut Construction Approved (email) - April 2, 2015	- Application Received - October 07, 2014 - Monitoring Data - December 18, 2014	- In Process for Review - Waiting for Dept. input on railroad cut coverage. - Construction activity for railroad cut approved.					

4 Cliffside Steam Station	<ul style="list-style-type: none"> <li>- Addition Information Request sent - Aug 26, 2014 -</li> <li>- Stormwater Data Submittal Received - Aug 28, 2014 - not responsive to all add-inf; - Received Sept. 19, 2014</li> <li>- Duke request for approval for ash movement. Wait for NCS permit issuance.</li> </ul>	<ul style="list-style-type: none"> <li>- Application Received - August 4, 2014;</li> </ul>	<ul style="list-style-type: none"> <li>- Internal Draft Permit</li> <li>- Draft to EPA for review - June 4th</li> <li>- Response From EPA July 23.</li> <li>- Public Notice August 2nd</li> <li>- Public Hearing September 10th. No attendees outside DEMLR except four Duke Energy Employees. Only comment letter from Duke Energy.</li> <li>- Permit to Issue by end of September 2015</li> </ul>	<ul style="list-style-type: none"> <li>Site Visit - June 24, 2015 - gathered information in support of permit application review.</li> </ul>
5 Dan River Steam Station	<ul style="list-style-type: none"> <li>Addition Information Request sent - Aug 26, 2014;</li> <li>- Additional Info Received - Sept. 22, 2014</li> <li>- Request on rail line construction - May 29, 2015</li> </ul>	<ul style="list-style-type: none"> <li>- Application Received - August 1, 2014</li> <li>- Application Amendment - Dec. 17, 2014</li> </ul>	<ul style="list-style-type: none"> <li>- In Review;</li> <li>- Draft to EPA for Review</li> <li>- Response From EPA July 23 2015</li> <li>- Public Notice August 2nd, 2015</li> <li>- Public Hearing September 8th 2015. No attendees outside DENR except 3 Duke Energy reps. Only comment from Duke Energy.</li> <li>- Permit to Issue by end of September 2015.</li> </ul>	<ul style="list-style-type: none"> <li>Site Visit - July 3 , 2014 - gathered information in support of future permit application review and give input on question for application submittal.</li> </ul>
6 Marshall Steam Station	<ul style="list-style-type: none"> <li>- Application Received - October 15, 2014</li> <li>- Monitoring Data - October 23, 2014</li> <li>- Monitoring Data - Dec. 17, 2014</li> </ul>	<ul style="list-style-type: none"> <li>- Application Received - October 15, 2014</li> <li>- Monitoring Data - October 23, 2014</li> <li>- Monitoring Data - Dec. 17, 2014</li> </ul>	<ul style="list-style-type: none"> <li>- Draft permit to public notice March 5, 2015.</li> <li>- Public Hearing Scheduled for April 8, 2015</li> <li>- Public Hearing Held April 8, 2015. Only Comment on stormwater permit was from Duke Energy</li> <li>- Permit Issued May 15, 2015</li> </ul>	<ul style="list-style-type: none"> <li>Site Visit - March 24, 2015 - verify information from application submittal and help finalize permit requirements</li> </ul>

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

12 Roxboro Power Station	- Application Received - December 15, 2014	In Process for Review
13 Weatherspoon Power Station	- Number of discussions about future application submittal due to future movement of coal ash at facility (July - Sept 2015)	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 - Number of discussions about future application submittal due to future movement of coal ash at facility (July - Sept 2015)	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

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			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 Allen Steam station. <b>Request received for Representative Outfall Status on Aug 20-2015.</b>									
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												

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 - 12/19/11	11/21/2014 Pending - waiting additional information	12/5/2014
Brickhaven #2 -ADI letter sent -12	11/21/2014 Pending - waiting additional information	12/5/2014
	19-25 Draft Pending	
	53-05 Draft Pending	

Brickhaven #2 RRO inspection/NOD 5/29/15

Colon Mine modified 6/5/15 to allow disposal of CCGs within the pit area

Brickhaven #2 Mine modified 6/5/15 to allow disposal of CCGs within the pit area

Brickhaven #2 Mine modified 9/1/15 to allow add a rail spur