

Pat McCrory Governor John E. Skvarla, III Secretary

October 1, 2014

MEMORANDUM

- TO: ENVIRONMENTAL REVIEW COMMISSION The Honorable Brent Jackson, Chairman The Honorable Ruth Samuelson, Co-Chairman The Honorable Mike Hager, Co-Chairman
 - COAL ASH MANAGEMENT COMMISSION
- FROM: Neal Robbins Director of Legislative Affairs
- SUBJECT: Quarterly Report on Operations, Activities, Programs and Progress Relating to Coal Combustion Residuals Surface Impoundments
- DATE: October 1, 2014

Pursuant to Senate Bill 729, 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 <u>neal.robbins@ncdenr.gov</u>.

cc: Mitch Gillespie, Assistant Secretary for Environment Mariah Matheson, ERC Assistant Jeff Hudson, ERC Counsel Jennifer McGinnis, ERC Counsel

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

October 1, 2014

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

Actions taken by DENR/DWR since March, 2014

Beginning in March, 2012, the Division of Water Resources (DWR) carried out inspections of each coal ash impoundment at every Duke facility to locate all unauthorized surface discharges.

The Department of Environment and Natural Resources requested that the NC Attorney General initiate civil actions on behalf of the state of North Carolina against Duke Energy Progress for violations of environmental regulations at all 14 facilities. The cases seek injunctive relief for unpermitted discharges at each impoundment. These actions were filed between March and August, 2014 and are currently in the discovery phase of litigation.

In March of 2014, DENR invited the U.S. Environmental Protection Agency (EPA) to partner with DENR in a potential enforcement action against Duke Energy for Clean Water Act (CWA) violations at all 14 coal ash facilities. EPA agreed and the partnership has since worked to assess the extent of Duke's non-compliance with the CWA.

In May, 2014, the state of North Carolina announced that it, through DENR, would serve as one of three trustees in a Natural Resource Damages claim against Duke Energy to ensure that Duke restores the environmental damages caused by the Dan River spill.

In August, 2014, DENR sent four letters to Duke Energy requiring them to provide to DENR excavation and dewatering plans for the Riverbend and Asheville coal ash facilities, groundwater assessment plans for all facilities (within 45 days), and comprehensive drinking water surveys (within 60 days). DENR also requested that Duke immediately begin weekly inspections of all impoundments, annual third-party structural assessments, and reopen National Pollutant Discharge Elimination System (NPDES) permits for the seven plants not yet addressed. (As of September 2, applications for Major Modifications of NPDES permits have been received for the following facilities: Asheville, Belews, Cape Fear, Cliffside, Dan River, Riverbend and Sutton).

As authorized by Senate Bill 729, DWR has begun the process of hiring new hydrogeologists necessary for conducting groundwater assessments. The division is also reassigning internal staff so as to fully address all the requirements of SB729.

DENR required Duke Energy to submit Groundwater Assessment Plans as part of the effort to clean up or mitigate groundwater contamination at the utility's coal ash storage ponds. The company met the September 26, 2014 deadline for submitting the plans to the Department. DWR is currently awaiting submission by Duke Energy of Drinking Water Supply Well Survey and Provision of Alternate Water Supply report (due October 1, 2014), Identification of New Discharges report (due October 1, 2014), Annual Report detailing volumes of ash produced, disposed of, used in structural fill projects and beneficially used in ways other than structural fill (due October 1, 2014), Receptor Survey report (due October 14, 2014), and submission of applications for modified NPDES permits for the remaining facilities (due October 31, 2014). Further reports and responses called for in Senate Bill 729 require submission at future dates.

Summaries of the facilities follow.

Plant Allen Steam Station

General Information Operational Date: 1957 Facility Status: Active Priority: Due December 31, 2015 Location: 253 Plant Allen Rd., Belmont, NC 28012 (NC House district 109, NC Senate district 43) NPDES Permit No.: NC0004979 Division of Water Resources Region: Mooresville GPS Coordinates: 35.182073, -81.014503

Coal Combustion Residuals Summary Fly Ash: Dry Handling Bottom Ash: Wet Handling Flue Gas Desulfurization: No Amount of Coal Combustion Residuals in the Impoundment(s): 11,580,000 tons

<u>Current Activities (Related to Groundwater)</u> Last Action Taken at the Facility: Water Supply Well Survey and Groundwater Assessment Plan in progress

Groundwater Reporting Status Water Supply Well Survey: Due October 1, 2014 Groundwater Assessment Plan: Due September 26, 2014 Groundwater Assessment Report: Due 180 days after approval of Groundwater Assessment Plan Groundwater Corrective Action Plan: Due 90 days from submission of Groundwater Assessment Report

Water Supply Wells Water Supply Wells Replaced Due to Contamination: 0

Groundwater Monitoring Summary

Compliance Groundwater Monitoring Wells Installed: December 2010

Number of Wells Being Monitored: 13

Number of Wells Being Monitored Outside Compliance Boundary (Non-Background): 0

Parameters Being Monitored: Antimony, Arsenic, Barium, Boron, Cadmium, Chromium, Chloride, Copper, Iron, Lead, Manganese, Mercury, Nickel, Nitrate, pH, Selenium, Sulfate, Thallium, Total Dissolved Solids, Water Level, and Zinc

Monitoring Months: March, July, and November

First Monitoring Event: March 2011

Parameters Showing Exceedances (Current and Historic): Iron, Manganese, Nickel, and pH

Plant Allen Steam Station, continued

Surface Water Reporting Status

Discharge Assessment Plan: Due December 31, 2014

Correction of Unauthorized Discharges: Application for Major Modification of NPDES permit not yet received

Surface Water Monitoring Summary

Receiving Bodies of Water: Catawba River (Lake Wylie), Class WS-IV and B and South Fork Catawba River (Outfall 001 and 003), Class WS-V

Number of Outfalls Monitored: 6

 Parameters Being Monitored: Flow, Temperature, Oil and Grease, Total Suspended Solids, Total Copper, Total Iron, Total Selenium, Total Arsenic, Total Cadmium, Total Chromium, Chloride, Total Nickel, Total Zinc, Total Silver, Total Mercury, Total Beryllium, Total Nitrogen, Chronic Toxicity, pH, and Fecal Coliform
 Number of Stormwater Outfalls Being Monitored: 0

Asheville Steam Electric Generating Plant

General Information Operational Date: 1964 Facility Status: Active Priority: Due December 31, 2015 Location: 200 CP&L Dr., Arden, NC 28704 (NC House district 116, NC Senate district 48) NPDES Permit No.: NC0000396 Division of Water Resources Region: Asheville GPS Coordinates: 35.465556, -82.550278

Coal Combustion Residuals Summary Fly Ash: Wet Handling Bottom Ash: Wet Handling Flue Gas Desulfurization: Yes Amount of Coal Combustion Residuals in the Impoundment(s): 3,000,000 tons

<u>Current Activities (Related to Groundwater)</u> Last Action Taken at the Facility: Water Supply Well Survey and Groundwater Assessment Plan in progress

Groundwater Reporting Status Water Supply Well Survey: Due October 1, 2014 Groundwater Assessment Plan: Due September 26, 2014 Groundwater Assessment Report: Due 180 days after approval of Groundwater Assessment Plan Groundwater Corrective Action Plan: Due 90 days from submission of Groundwater Assessment Report

Water Supply Wells

Water Supply Wells Replaced Due to Contamination: 0

Groundwater Monitoring Summary

Compliance Groundwater Monitoring Wells Installed: August 2010

Number of Wells Being Monitored: 11

Number of Wells Being Monitored Outside Compliance Boundary (Non-Background): 0

Parameters Being Monitored: Antimony, Arsenic, Barium, Boron, Cadmium, Chromium, Chloride, Copper, Iron, Lead, Manganese, Mercury, Nickel, Nitrate, pH, Selenium, Sulfate, Thallium, Total Dissolved Solids, Water Level, and Zinc

Monitoring Months: April, July, and November

First Monitoring Event: November 2010

Parameters Showing Exceedances (Current and Historic): Arsenic, Boron, Chloride, Chromium, Iron, Manganese, Nitrate, pH, Selenium, Sulfate, Thallium, and Total Dissolved Solids

Asheville Steam Electric Generating Plant, continued

Surface Water Reporting Status

Discharge Assessment Plan: Due December 31, 2014

Correction of Unauthorized Discharges: Application for Major Modification of NPDES permit received

Surface Water Monitoring Summary

Receiving Bodies of Water: French Broad River, Lake Julian, and unnamed tributary to Powell Creek, all Class C. **Number of Outfalls Being Monitored:** 2

Parameters Being Monitored: Flow, Oil and Grease, Total Suspended Solids, pH, Total Mercury, Total Arsenic, Total Beryllium, Total Cadmium, Total Chlorides, Total Chromium, Total Copper, Total Fluoride, Total Lead, Total Manganese, Total Nickel, Total Selenium, Total Silver, Total Thallium, Total Zinc, Total Nitrogen, Total Phosphorus, Chronic Toxicity, Total Residual Chlorine, and Temperature

Number of Stormwater Outfalls Being Monitored: 6

Parameters Being Monitored for Stormwater Outfalls: Qualitative ("visual") monitoring 2/year, which includes at each outfall: color, odor, clarity, floating solids, suspended solids, foam, oil sheen, and other obvious indicators of stormwater pollution.

Belews Creek Steam Station

General Information Operational Date: 1974 Facility Status: Active Priority: Due December 31, 2015 Location: 3195 Pine Hall Road, Belews Creek, NC 27009 (NC House district 91, NC Senate district 30) NPDES Permit No.: NC0024406 Division of Water Resources Region: Winston-Salem GPS Coordinates: 36.28, -80.060556

Coal Combustion Residuals Summary Fly Ash: Dry Handling Bottom Ash: Wet Handling Flue Gas Desulfurization: Yes Amount of Coal Combustion Residuals in the Impoundment(s): 12,610,000 tons

Current Activities (Related to Groundwater)

Last Action Taken at the Facility: Water Supply Well Survey and Groundwater Assessment Plan in progress

Groundwater Reporting Status

Water Supply Well Survey: Due October 1, 2014 Groundwater Assessment Plan: Due September 26, 2014 Groundwater Assessment Report: Due 180 days after approval of Groundwater Assessment Plan Groundwater Corrective Action Plan: Due 90 days from submission of Groundwater Assessment Report

Water Supply Wells

Water Supply Wells Replaced Due to Contamination: 0

Groundwater Monitoring Summary

Compliance Groundwater Monitoring Wells Installed: December 2010

Number of Wells Being Monitored: 9

Number of Wells Being Monitored Outside Compliance Boundary (Non-Background): 0

Parameters Being Monitored: Antimony, Arsenic, Barium, Boron, Cadmium, Chromium, Chloride, Copper, Iron, Lead, Manganese, Mercury, Nickel, Nitrate, pH, Selenium, Sulfate, Thallium, Total Dissolved Solids, Water Level, and Zinc

Monitoring Months: January, May, and September

First Monitoring Event: January 2011

Parameters Showing Exceedances (Current and Historic): Chromium, Iron, Manganese, pH, and Thallium

Surface Water Reporting Status

Discharge Assessment Plan: Due December 31, 2014

Correction of Unauthorized Discharges: Application for Major Modification of NPDES permit received Belews Creek Steam Station, continued

Surface Water Monitoring Summary

Receiving Bodies of Water: Belews Lake (Outfall 001), Class C, and Dan River (Outfall 003) class WS-IV **Number of Outfalls Being Monitored:** 2

Parameters Being Monitored: Flow, Temperature, Oil and Grease, Total Suspended Solids, pH, Total Arsenic, Chlorides, Total Iron, Total Copper, Total Selenium, Total Silver, Fluoride, Total Phosphorus, Total Nitrogen, Chronic Toxicity, Bromides, and Total Mercury

Number of Stormwater Outfalls Being Monitored: 0

Buck Steam Station

General Information Operational Date: 1926 Facility Status: Retired and Converted to Natural Gas (2011) Priority: Due December 31, 2015 Location: 1555 Dukeville Road, Salisbury, NC 28146 (NC House district 76, NC Senate district 34) NPDES Permit No.: NC0004774 Division of Water Resources Region: Mooresville GPS Coordinates: 35.711029, -80.379359

<u>Coal Combustion Residuals Summary</u> **Fly Ash:** None Currently Produced **Bottom Ash:** None Currently Produced **Flue Gas Desulfurization:** No **Amount of Coal Combustion Residuals in the Impoundment(s):** 5,060,000 tons

<u>Current Activities (Related to Groundwater)</u> Last Action Taken at the Facility: Water Supply Well Survey and Groundwater Assessment Plan in progress

Groundwater Reporting Status Water Supply Well Survey: Due October 1, 2014 Groundwater Assessment Plan: Due September 26, 2014 Groundwater Assessment Report: Due 180 days after approval of Groundwater Assessment Plan Groundwater Corrective Action Plan: Due 90 days from submission of Groundwater Assessment Report

Water Supply Wells Water Supply Wells Replaced Due to Contamination: 0

Groundwater Monitoring Summary

Compliance Groundwater Monitoring Wells Installed: December 2010

Number of Wells Being Monitored: 14

Number of Wells Being Monitored Outside Compliance Boundary (Non-Background): 0

Parameters Being Monitored: Antimony, Arsenic, Barium, Boron, Cadmium, Chromium, Chloride, Copper, Iron, Lead, Manganese, Mercury, Nickel, Nitrate, pH, Selenium, Sulfate, Thallium, Total Dissolved Solids, Water Level, and Zinc

Monitoring Months: March, July, and November

First Monitoring Event: March 2011

Parameters Showing Exceedances (Current and Historic): Boron, Chromium, Iron, Manganese, pH, Sulfate, and Total Dissolved Solids

Buck Steam Station, continued

<u>Surface Water Reporting Status</u> Discharge Assessment Plan: Due December 31, 2014 Correction of Unauthorized Discharges: Application for Major Modification of NPDES permit not yet received

 Surface Water Monitoring Summary
 Receiving Bodies of Water: Yadkin River, Class WS-IV and B
 Number of Outfalls Being Monitored: 3
 Parameters Being Monitored: Flow, Temperature, Oil and Grease, Total Suspended Solids, Total Copper, Total Iron, Total Arsenic, Total Selenium, Chronic Toxicity, Total Nitrogen, Total Phosphorus, pH, Total Mercury, and Fecal Coliform
 Number of Stormwater Outfalls Being Monitored: 0

Cape Fear Steam Electric Generating Plant

General Information Operational Date: 1923 Facility Status: Retired (2011) Priority: Due December 31, 2015 Location: 500 CP&L Road, Moncure, NC 27559 (NC House district 54, NC Senate district 23) NPDES Permit No.: NC0003433 Division of Water Resources Region: Raleigh GPS Coordinates: 35.587778, -79.044444

<u>Coal Combustion Residuals Summary</u> **Fly Ash:** None Currently Produced **Bottom Ash:** None Currently Produced **Flue Gas Desulfurization:** No **Amount of Coal Combustion Residuals in the Impoundment(s):** 5,670,000 tons

<u>Current Activities (Related to Groundwater)</u> Last Action Taken at the Facility: Water Supply Well Survey and Groundwater Assessment Plan in progress

Groundwater Reporting Status Water Supply Well Survey: Due October 1, 2014 Groundwater Assessment Plan: Due September 26, 2014 Groundwater Assessment Report: Due 180 days after approval of Groundwater Assessment Plan Groundwater Corrective Action Plan: Due 90 days from submission of Groundwater Assessment Report

Water Supply Wells

Water Supply Wells Replaced Due to Contamination: 0

Groundwater Monitoring Summary

Compliance Groundwater Monitoring Wells Installed: September 2010

Number of Wells Being Monitored: 13

Number of Wells Being Monitored Outside Compliance Boundary (Non-Background): 0

Parameters Being Monitored: Aluminum, Antimony, Arsenic, Barium, Boron, Cadmium, Chromium, Chloride, Copper, Iron, Lead, Manganese, Mercury, Nickel, Nitrate, pH, Selenium, Sulfate, Thallium, Total Dissolved Solids, Water Level, and Zinc

Monitoring Months: March, June, and October

First Monitoring Event: December 2010

Parameters Showing Exceedances (Current and Historic): Antimony, Arsenic, Boron, Cadmium, Iron, Manganese, pH, Selenium, Sulfate, and Total Dissolved Solids

Cape Fear Steam Electric Generating Plant, continued

Surface Water Reporting Status

Discharge Assessment Plan: Due December 31, 2014

Correction of Unauthorized Discharges: Application for Major Modification of NPDES permit received

Surface Water Monitoring Summary

Receiving Bodies of Water: an unnamed tributary to Cape Fear River (confluence of Haw and Deep rivers), Class WS-IV

Number of Outfalls Being Monitored: 1

 Parameters Being Monitored: Flow, Total Chromium, Temperature, pH, Total Arsenic, Total Selenium, Total Mercury, Total Nickel, Total Copper, Total Nitrogen, Total Phosphorus, Fecal Coliform, Chronic Toxicity
 Number of Stormwater Outfalls Being Monitored: 5

Parameters Being Monitored for Stormwater Outfalls: No Requirements

Cliffside Steam Station

General Information Operational Date: 1940 Facility Status: Active Priority: Due December 31, 2015 Location: 573 Duke Power Road, Mooresboro, NC 28114 (NC House districts 111 & 112, NC Senate districts 46 & 47) NPDES Permit No.: NC0005088 Division of Water Resources Region: Asheville GPS Coordinates: 35.217222, -81.76111

<u>Coal Combustion Residuals Summary</u> **Fly Ash:** Wet Handling (Unit 5), Dry Handling (Unit 6) **Bottom Ash:** Wet Handling (Unit 5), Dry Handling (Unit 6) **Flue Gas Desulfurization:** Yes **Amount of Coal Combustion Residuals in the Impoundment(s):** 6,540,000 tons

<u>Current Activities (Related to Groundwater)</u> Last Action Taken at the Facility: Water Supply Well Survey and Groundwater Assessment Plan in progress

Groundwater Reporting Status Water Supply Well Survey: Due October 1, 2014 Groundwater Assessment Plan: Due September 26, 2014 Groundwater Assessment Report: Due 180 days after approval of Groundwater Assessment Plan Groundwater Corrective Action Plan: Due 90 days from submission of Groundwater Assessment Report

Water Supply Wells Water Supply Wells Replaced Due to Contamination: 0

Groundwater Monitoring Summary

Compliance Groundwater Monitoring Wells Installed: April 2011

Number of Wells Being Monitored: 9

Number of Wells Being Monitored Outside Compliance Boundary (Non-Background): 0

Parameters Being Monitored: Antimony, Arsenic, Barium, Boron, Cadmium, Chloride, Chromium, Copper, Iron, Lead, Manganese, Mercury, Nickel, Nitrate, pH, Selenium, Sulfate, Thallium, Total Dissolved Solids, Water Level, and Zinc

Monitoring Months: April, August, and December

First Monitoring Event: April 2011

Parameters Showing Exceedances (Current and Historic): Chromium, Iron, Manganese, pH, Sulfate, and Total Dissolved Solids

Cliffside Steam Station, continued

Surface Water Reporting Status

Discharge Assessment Plan: Due December 31, 2014

Correction of Unauthorized Discharges: Application for Major Modification of NPDES permit received

Surface Water Monitoring Summary

Receiving Bodies of Water: Broad River, Class C

Number of Outfalls Being Monitored: 3

Parameters Being Monitored: Flow, Oil and Grease, Total Suspended Solids, Total Copper, Total Iron, Total Arsenic, Total Selenium, Chronic Toxicity, Total Nitrogen, Total Phosphorus, pH, Total Cadmium, Total Chromium, Total Mercury, Total Nickel, Total Silver, Total Zinc, and Temperature

Number of Stormwater Outfalls Being Monitored: 0

Dan River Combined Cycle Station

General Information Operational Date: 1949 Facility Status: Retired and Converted to Natural Gas (2012) Priority: Due December 31, 2015 Location: 900 South Edgewood Road, Eden, NC 27288 (NC House district 65, NC Senate district 26) NPDES Permit No.: NC0003468 Division of Water Resources Region: Winston-Salem GPS Coordinates: 36.488368, -79.718053

Coal Combustion Residuals Summary Fly Ash: None Currently Produced Bottom Ash: None Currently Produced Flue Gas Desulfurization: No Amount of Coal Combustion Residuals in the Impoundment(s): 1,170,000 tons

<u>Current Activities (Related to Groundwater)</u> Last Action Taken at the Facility: Water Supply Well Survey and Groundwater Assessment Plan in progress

Groundwater Reporting Status Water Supply Well Survey: Due October 1, 2014 Groundwater Assessment Plan: Due September 26, 2014 Groundwater Assessment Report: Due 180 days after approval of Groundwater Assessment Plan Groundwater Corrective Action Plan: Due 90 days from submission of Groundwater Assessment Report

Water Supply Wells Water Supply Wells Replaced Due to Contamination: 0

Groundwater Monitoring Summary

Compliance Groundwater Monitoring Wells Installed: November 2010

Number of Wells Being Monitored: 7

Number of Wells Being Monitored Outside Compliance Boundary (Non-Background): 0

Parameters Being Monitored: Antimony, Arsenic, Barium, Boron, Cadmium, Chromium, Chloride, Copper, Iron, Lead, Manganese, Mercury, Nickel, Nitrate, pH, Selenium, Sulfate, Thallium, Total Dissolved Solids, Water Level, and Zinc

Monitoring Months: January, May, and September

First Monitoring Event: January 2011

Parameters Showing Exceedances (Current and Historic): Antimony, Arsenic, Boron, Iron, Manganese, pH, Sulfate, and Total Dissolved Solids

Dan River Combined Cycle Station, continued

<u>Surface Water Reporting Status</u> **Discharge Assessment Plan:** Due December 31, 2014 **Correction of Unauthorized Discharges:** Application for Major Modification of NPDES permit received

Surface Water Monitoring Summary

Receiving Bodies of Water: Dan River, Class C

Number of Outfalls Being Monitored: 3

Parameters Being Monitored: Flow, Temperature, Total Iron, Total Suspended Solids, pH, Oil and Grease, Sulfate, Acute Toxicity, Total Kjeldahl Nitrogen, Nitrite/Nitrate Nitrogen, Total Nitrogen, and Total Phosphorus

Number of Stormwater Outfalls Being Monitored: 0

H. F. Lee Steam Electric Plant

<u>General Information</u> Operational Date: 1951 Facility Status: Retired and Converted to Natural Gas (2012) Priority: Due December 31, 2015 Location: 1677 Old Smithfield Road, Goldsboro, NC 27530 (NC House districts 4 & 10, NC Senate district 7) NPDES Permit No.: NC0003417 Division of Water Resources Region: Washington GPS Coordinates: 35.378023, -78.085626

Coal Combustion Residuals Summary Fly Ash: None Currently Produced Bottom Ash: None Currently Produced Flue Gas Desulfurization: No Amount of Coal Combustion Residuals in the Impoundment(s): 5,899,000 tons

<u>Current Activities (Related to Groundwater)</u> Last Action Taken at the Facility: Water Supply Well Survey and Groundwater Assessment Plan in progress

Groundwater Reporting Status Water Supply Well Survey: Due October 1, 2014 Groundwater Assessment Plan: Due September 26, 2014 Groundwater Assessment Report: Due 180 days after approval of Groundwater Assessment Plan Groundwater Corrective Action Plan: Due 90 days from submission of Groundwater Assessment Report

Water Supply Wells Water Supply Wells Replaced Due to Contamination: 0

Groundwater Monitoring Summary

- **Compliance Groundwater Monitoring Wells Installed:** December 2010, with modification in October 2012 at the active site. September 2011 at the inactive site.
- Number of Wells Being Monitored: 8 around active ponds; 5 around inactive ponds

Number of Wells Being Monitored Outside Compliance Boundary (Non-Background): 0

Parameters being monitored: Antimony, Arsenic, Barium, Boron, Cadmium, Chromium, Chloride, Copper, Iron, Lead, Manganese, Mercury, Nickel, Nitrate, pH, Selenium, Sulfate, Thallium, Total Dissolved Solids, Water Level, and Zinc

Monitoring Months: March, June, and December

First Monitoring Event: December 2010

Parameters Showing Exceedances (Current and Historic): Arsenic, Boron, Cadmium, Chromium, Iron, Lead, Manganese, pH, Selenium, Thallium, and Total Dissolved Solids

H. F. Lee Steam Electric Plant, continued

Surface Water Reporting Status

Discharge Assessment Plan: Due December 31, 2014

Correction of Unauthorized Discharges: Application for Major Modification of NPDES permit not yet received

Surface Water Monitoring Summary

Receiving Bodies of Water: Neuse River, Class WS-IV NSW

Number of Outfalls Being Monitored: 2

Parameters Being Monitored: Flow, Oil and Grease, Total Suspended Solids, pH, Total Arsenic, Total Selenium, Total Kjeldahl Nitrogen, Nitrites plus Nitrates, Total Nitrogen, Total Phosphorus, Chronic Toxicity, Total Copper, Total Iron, Total Residual Chlorine, Temperature, Acute Toxicity, Total Zinc, and Acute Episodic Toxicity

Number of Stormwater Outfalls Being Monitored: 0

Marshall Steam Station

General Information Operational Date: 1965 Facility Status: Active Priority: Due December 31, 2015 Location: 8320 East NC Hwy. 150, Terrell, NC 28682 (NC House district 89, NC Senate district 42) NPDES Permit No.: NC0004987 Division of Water Resources Region: Mooresville GPS Coordinates: 35.595278, -80.964444

Coal Combustion Residuals Summary Fly Ash: Dry Handling Bottom Ash: Wet Handling Flue Gas Desulfurization: Yes Amount of Coal Combustion Residuals in the Impoundment(s): 22,270,000 tons

<u>Current Activities (Related to Groundwater)</u> Last Action Taken at the Facility: Water Supply Well Survey and Groundwater Assessment Plan in progress

Groundwater Reporting Status Water Supply Well Survey: Due October 1, 2014 Groundwater Assessment Plan: Due September 26, 2014 Groundwater Assessment Report: Due 180 days after approval of Groundwater Assessment Plan Groundwater Corrective Action Plan: Due 90 days from submission of Groundwater Assessment Report

Water Supply Wells Water Supply Wells Replaced Due to Contamination: 0

Groundwater Monitoring Summary

Compliance Groundwater Monitoring Wells Installed: August 2010

Number of Wells Being Monitored: 12

Number of Wells Being Monitored Outside Compliance Boundary (Non-Background): 0

Parameters Being Monitored: Antimony, Arsenic, Barium, Boron, Cadmium, Chromium, Chloride, Copper, Iron, Lead, Manganese, Mercury, Nickel, Nitrate, pH, Selenium, Sulfate, Thallium, Total Dissolved Solids, Water Level, and Zinc

Monitoring Months: February, June, and October

First Monitoring Event: February 2011

Parameters Showing Exceedances (Current and Historic): Boron, Iron, Manganese, pH, Sulfate, and Total Dissolved Solids

Marshall Steam Station, continued

<u>Surface Water Reporting Status</u> **Discharge Assessment Plan:** Due December 31, 2014 **Correction of Unauthorized Discharges:** Application for Major Modification of NPDES permit not yet received

Surface Water Monitoring Summary

Receiving Bodies of Water: Catawba River (Lake Norman), Class WS-IV and B-CA

Number of Outfalls Being Monitored: 4

 Parameters Being Monitored: Flow, Temperature, Free Available Chlorine, Oil and Grease, Total Suspended Solids, Total Arsenic, Chloride, Total Copper, Total Iron, Total Mercury, Total Nickel, Total Selenium, Total Zinc, Total Nitrogen, Total Phosphorus, Chronic Toxicity, pH, and Total Residual Chlorine
 Number of Stormwater Outfalls Being Monitored: 0

Mayo Steam Electric Generating Plant

General Information Operational Date: 1983 Facility Status: Active Priority: Due December 31, 2015 Location: 10660 Boston Road, Roxboro, NC 27573 (NC House district 2, NC Senate district 22) NPDES Permit No.: NC0038377 Division of Water Resources Region: Raleigh GPS Coordinates: 36.527778, -78.885833

Coal Combustion Residuals Summary Fly Ash: Dry Handling Bottom Ash: Dry Handling Flue Gas Desulfurization: Yes Amount of Coal Combustion Residuals in the Impoundment(s): 6,900,000 tons

<u>Current Activities (Related to Groundwater)</u> Last Action Taken at the Facility: Water Supply Well Survey and Groundwater Assessment Plan in progress

Groundwater Reporting Status Water Supply Well Survey: Due October 1, 2014 Groundwater Assessment Plan: Due September 26, 2014 Groundwater Assessment Report: Due 180 days after approval of Groundwater Assessment Plan Groundwater Corrective Action Plan: Due 90 days from submission of Groundwater Assessment Report

Water Supply Wells Water Supply Wells Replaced Due to Contamination: 0

Groundwater Monitoring Summary

Compliance Groundwater Monitoring Wells Installed: November 2010

Number of Wells Being Monitored: 10

Number of Wells Being Monitored Outside Compliance Boundary (Non-Background): 0

Parameters Being Monitored: Aluminum, Antimony, Arsenic, Barium, Boron, Cadmium, Chromium, Chloride, Copper, Iron, Lead, Manganese, Mercury, Nickel, Nitrate, pH, Selenium, Sulfate, Thallium, Total Dissolved Solids, Water Level, and Zinc

Monitoring Months: April, July, and November

First Monitoring Event: December 2010

Parameters Showing Exceedances (Current and Historic): Boron, Cadmium, Chromium, Iron, Manganese, pH, Thallium, and Total Dissolved Solids

Mayo Steam Electric Generating Plant, continued

Surface Water Reporting Status

Discharge Assessment Plan: Due December 31, 2014

Correction of Unauthorized Discharges: Application for Major Modification of NPDES permit not yet received

Surface Water Monitoring Summary

Receiving Bodies of Water: Mayo Lake, Class WS-V

Number of Outfalls Being Monitored: 2

Parameters Being Monitored: Flow, Free Available Chlorine, Total Chromium, Total Zinc, 126 Priority Pollutants, pH, Oil and Grease, Total Suspended Solids, Total Selenium, Acute Toxicity, Total Arsenic, Total Copper, Total Iron, pH, Total Mercury, Total Beryllium, Total cadmium, Total Chlorides, Total Chromium, Total Copper, Total Fluoride, Total Lead, Total Manganese, Total Nickel, Total Silver, Total Zinc, Total barium, Total Thallium, Total Vanadium, Total Antimony, Total Boron, Total Cobalt, Total Molybdenum, and Total Iron

Number of Stormwater Outfalls Being Monitored: 7 Parameters Being Monitored for Stormwater Outfalls: visual monitoring 2/year

Riverbend Steam Station

General Information Operational Date: 1929 Facility Status: Retired (2013) Priority: Due December 31, 2015 Location: 175 Steamplant Station, Mount Holly, NC 28120 (NC House district 108, NC Senate district 44) NPDES Permit No.: NC0004961 Division of Water Resources Region: Mooresville GPS Coordinates: 35.357778, -80.97

<u>Coal Combustion Residuals Summary</u> **Fly Ash:** None Currently Produced **Bottom Ash:** None Currently Produced **Flue Gas Desulfurization:** No **Amount of Coal Combustion Residuals in the Impoundment(s):** 2,730,000 tons

<u>Current Activities (Related to Groundwater)</u> Last Action Taken at the Facility: Water Supply Well Survey and Groundwater Assessment Plan in progress

Groundwater Reporting Status Water Supply Well Survey: Due October 1, 2014 Groundwater Assessment Plan: Due September 26, 2014 Groundwater Assessment Report: Due 180 days after approval of Groundwater Assessment Plan Groundwater Corrective Action Plan: Due 90 days from submission of Groundwater Assessment Report

Water Supply Wells Water Supply Wells Replaced Due to Contamination: 0

Groundwater Monitoring Summary

Compliance Groundwater Monitoring Wells Installed: December 2010

Number of Wells Being Monitored: 12

Number of Wells Being Monitored Outside Compliance Boundary (Non-Background): 0

Parameters being monitored: Antimony, Arsenic, Barium, Boron, Cadmium, Chromium, Chloride, Copper, Iron, Lead, Manganese, Mercury, Nickel, Nitrate, pH, Selenium, Sulfate, Thallium, Total Dissolved Solids, Water Level, and Zinc

Monitoring Months: February, June, and October

First Monitoring Event: December 2010

Parameters Showing Exceedances (Current and Historic): Antimony, Iron, Manganese, and pH

<u>Surface Water Reporting Status</u> **Discharge Assessment Plan:** Due December 31, 2014 **Correction of Unauthorized Discharges:** Application for Major Modification of NPDES permit received <u>Riverbend Steam Station, continued</u>

Surface Water Monitoring Summary

Receiving Bodies of Water: Catawba River (Mountain Island Lake), Class WS-IV and B-CA

Number of Outfalls Being Monitored: 3

Parameters Being Monitored: Flow, Total Suspended Solids, Oil and Grease, Total Copper, Total Iron, Total Arsenic, Total Selenium, Total Mercury, Total Phosphorus, Total Nitrogen, pH, Chronic Toxicity, Temperature, and Fecal Coliform

Number of Stormwater Outfalls Being Monitored: 0

Roxboro Steam Electric Generating Plant

General Information Operational Date: 1966 Facility Status: Active Priority: Due December 31, 2015 Location: 1700 Dunnaway Road, Semora, NC 27343 (NC House district 2, NC Senate district 22) NPDES Permit No.: NC0003425 Division of Water Resources Region: Raleigh GPS Coordinates: 36.478833, -79.070889

Coal Combustion Residuals Summary Fly Ash: Dry Handling Bottom Ash: Wet Handling Flue Gas Desulfurization: Yes Amount of Coal Combustion Residuals in the Impoundment(s): 16,440,000 tons

<u>Current Activities (Related to Groundwater)</u> Last Action Taken at the Facility: Water Supply Well Survey and Groundwater Assessment Plan in progress

Groundwater Reporting Status Water Supply Well Survey: Due October 1, 2014 Groundwater Assessment Plan: Due September 26, 2014 Groundwater Assessment Report: Due 180 days after approval of Groundwater Assessment Plan Groundwater Corrective Action Plan: Due 90 days from submission of Groundwater Assessment Report

Water Supply Wells Water Supply Wells Replaced Due to Contamination: 0

Groundwater Monitoring Summary

Compliance Groundwater Monitoring Wells Installed: November 2010

Number of Wells Being Monitored: 8

Number of Wells Being Monitored Outside Compliance Boundary (Non-Background): 0

Parameters being monitored: Aluminum, Antimony, Arsenic, Barium, Boron, Cadmium, Chromium, Chloride, Copper, Iron, Lead, Manganese, Mercury, Nickel, Nitrate, pH, Selenium, Sulfate, Thallium, Total Dissolved Solids, Water Level, and Zinc

Monitoring Months: April, July, and November

First Monitoring Event: November 2010

Parameters Showing Exceedances (Current and Historic): Cadmium, Chromium, Iron, Manganese, pH, Sulfate, and Total Dissolved Solids

Roxboro Steam Electric Generating Plant, continued

<u>Surface Water Reporting Status</u> **Discharge Assessment Plan:** Due December 31, 2014 **Correction of Unauthorized Discharges:** Application for Major Modification of NPDES permit not yet received

<u>Surface Water Monitoring Summary</u>
 Receiving Bodies of Water: Hyco Lake, Class WS-V and B
 Number of Outfalls Being Monitored: 2
 Parameters Being Monitored: Flow, Total Residual Chlorine, Total Phosphorus, Total Nitrogen, Temperature, Total Arsenic, pH, and Acute Toxicity
 Number of Stormwater Outfalls Being Monitored: 0

L. V. Sutton Electric Plant

General Information Operational Date: 1954 Facility Status: Retired and Converted to Natural Gas (2013) Priority: Due December 31, 2015 Location: 801 Sutton Steam Plant Road, Wilmington, NC 28401 (NC House district 18, NC Senate district 9) NPDES Permit No.: NC0001422 Division of Water Resources Region: Wilmington GPS Coordinates: 34.283786, -77.985205

<u>Coal Combustion Residuals Summary</u> **Fly Ash:** None Currently Produced **Bottom Ash:** None Currently Produced **Flue Gas Desulfurization:** No **Amount of Coal Combustion Residuals in the Impoundment(s):** 6,320,000 tons

<u>Current Activities (Related to Groundwater)</u> Last Action Taken at the Facility: Water Supply Well Survey and Groundwater Assessment Plan in progress

Groundwater Reporting Status Water Supply Well Survey: Due October 1, 2014 Groundwater Assessment Plan: Due September 26, 2014 Groundwater Assessment Report: Due 180 days after approval of Groundwater Assessment Plan Groundwater Corrective Action Plan: Due 90 days from submission of Groundwater Assessment Report

Water Supply Wells Water Supply Wells Replaced Due to Contamination: 0

Groundwater Monitoring Summary

Compliance Groundwater Monitoring Wells Installed: Through 2006

Number of Wells Being Monitored: 17

Number of Wells Being Monitored Outside Compliance Boundary (Non-Background): 7

Parameters Being Monitored: Antimony, Arsenic, Barium, Boron, Cadmium, Chromium, Chloride, Copper, Iron, Lead, Manganese, Mercury, Nickel, Nitrate, pH, Selenium, Sulfate, Thallium, Total Dissolved Solids, Water Level, and Zinc

Monitoring Months: March June, and October

First Monitoring Event: March 2010

Parameters Showing Exceedances (Current and Historic): Antimony, Arsenic, Boron, Cadmium, Chloride, Iron, Lead, Manganese, Mercury, pH, Selenium, Sulfate, Thallium, and Total Dissolved Solids

L. V. Sutton Electric Plant, continued

<u>Surface Water Reporting Status</u> Discharge Assessment Plan: Due December 31, 2014 Correction of Unauthorized Discharges: Application for Major Modification of NPDES permit received

Surface Water Monitoring Summary

Receiving Bodies of Water: Cape Fear River, Class C - Swamp

Number of Outfalls Being Monitored: 1

Parameters Being Monitored: Flow, Temperature, Total Residual Chlorine, Total Copper, Total Nitrogen, Total Phosphorus, Dissolved Oxygen, Acute Toxicity, Total Mercury, pH, Total Suspended Solids, Total Selenium, Total Arsenic, and Oil and Grease

Number of Stormwater Outfalls Being Monitored: 0

Weatherspoon Steam Electric Plant

General Information Operational Date: 1949 Facility Status: Retired (2011) Priority: Due December 31, 2015 Location: 491 Power Plant Road, Lumberton, NC 28358 (NC House district 46, NC Senate district 13) NPDES Permit No.: NC0005363 Division of Water Resources Region: Fayetteville GPS Coordinates: 34.592523, -78.977649

Coal Combustion Residuals Summary Fly Ash: None Currently Produced Bottom Ash: None Currently Produced Flue Gas Desulfurization: No Amount of Coal Combustion Residuals in the Impoundment(s): 1,700,000 tons

<u>Current Activities (Related to Groundwater)</u> Last Action Taken at the Facility: Water Supply Well Survey and Groundwater Assessment Plan in progress

Groundwater Reporting Status Water Supply Well Survey: Due October 1, 2014 Groundwater Assessment Plan: Due September 26, 2014 Groundwater Assessment Report: Due 180 days after approval of Groundwater Assessment Plan Groundwater Corrective Action Plan: Due 90 days from submission of Groundwater Assessment Report

Water Supply Wells Water Supply Wells Replaced Due to Contamination: 0

Groundwater Monitoring Summary

Compliance Groundwater Monitoring Wells Installed: August 2010

Number of Wells Being Monitored: 4

Number of Wells Being Monitored Outside Compliance Boundary (Non-Background): 0

Parameters Being Monitored: Antimony, Arsenic, Barium, Boron, Cadmium, Chromium, Chloride, Copper, Iron, Lead, Manganese, Mercury, Nickel, Nitrate, pH, Selenium, Sulfate, Thallium, Total Dissolved Solids, Water Level, and Zinc

Monitoring Months: March, June, and October

First Monitoring Event: November 2010

Parameters Showing Exceedances (Current and Historic): Arsenic, Cadmium, Iron, Manganese, pH, and Thallium

Weatherspoon Steam Electric Plant, continued

Surface Water Reporting Status

Discharge Assessment Plan: Due December 31, 2014

Correction of Unauthorized Discharges: Application for Major Modification of NPDES permit not yet received

Surface Water Monitoring Summary

Receiving Bodies of Water: Lumber River, Class C - Swamp

Number of Outfalls Being Monitored: 2

Parameters Being Monitored: Flow, Oil and Grease, Total Suspended Solids, Total Copper, Total Iron, Total Arsenic, Total Selenium, pH, Temperature, and Acute Toxicity

Number of Stormwater Outfalls Being Monitored: 3

Parameters Being Monitored for Stormwater Outfalls: visual 2/year, TSS, O&G, As, Cu, Fe, Hg, Se, pH (two of the three outfalls only)

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) GASTO-016 NOD 6/13/14. GASTO 061 NOD 6/13/14. Duke letter 6/26/14. Duke letter 7/30/14.	List of Dam Safety Applications Received/Pending	Dam Safety Application Status	Dam Safety List of Inspections, (Date and General Findings) 6/12/14 - camera inspection review for GASTO-061 and	
1	Allen Steam Station					GASTO-016 letter 8/11/14. GASTO-061 letter 8/11/14. Duke	GASTO-016, GASTO-061 repair plans due 9/26/14.	EAP under review.	GASTO-016. Both spillways need repair.	
2	Belews Creek Steam Station									
3	Buck Steam Station					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, ROWAN-069 repair plans due 9/26/14. ROWAN-070 repair plan due 10/13/14.	EAP under review.	6/12/14 - camera inspection review for ROWAN-047, ROWAN- 069, ROWAN-070. ROWAN-047 and ROWAN-069 need repair. Requested engineer's assesment of ROWAN-070. After evaluation of engineer's assessment, ROWAN-070 determined to need repair.	
4	Cliffside Steam Station					CLEVE-047 NOD 6/13/14. CLEVE- 049 NOD 6/13/14. RUTHE-070 NOD 6/13/14. Duke letter 6/26/14. Duke letter 7/30/14. CLEVE-049 letter 8/11/14. RUTHE-070 letter 8/11/14. Duke letter 8/22/14.	CLEVE-049, RUTHE-070 repair plans due 9/26/14.	CLEVE-047 repair plan under review. EAP under review.	6/12/14 - camera inspection review for CLEVE-047, CLEVE-049, RUTHE-070. All spillways need repair.	
5	Dan River Steam Station									
6	Marshall Steam Station				6/20/14 - site visit with RCO permitting staff to review submitted application info;	letter 6/26/14. Duke letter 7/30/14. NOD issued 8/11/14. Duke letter 8/22/14. GASTO-098 Pipe NOD 6/13/14.	CATAW-054 repair plan for spillway system due 10/16/14, CATAW-2014-009, application received on 5/5/14. GASTO-098 repair plan due 9/26/14. GASTO-099 next annual internal camera inspection due	CATAW-054 erosion repair plan under review. EAP under review. CATAW-2014-009, application approved 6/1/14.	6/12/14 camera inspection review for CATAW-054. Requested engineer's assessment of video. 6/12/2014 camera inspection for GASTO-098, GASTO-099. GASTO-	
					7/15/14 - site visit for newly found stormwater pipe	7/30/14. GASTO-098 letter 8/11/14. GASTO-099 letter	by 3/27/15, with engineer's assessment and copy of video			GASTO-
7	Riverbend Steam Station				evaluation.	8/11/14. Duke letter 8/22/14.	submitted within 30 days	EAP under review.	-	in comp
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

GASTO-2014-009, 7/11/14, in compliance

			DENR/DEMLR Quarterly Report or June - August 2014	n Coal Ash Manageme	ent Activities due to the ERC				
No	Plant Name 1 Allen Steam Station	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	
	2 Belews Creek Steam Station 3 Buck Steam Station 4 Cliffside Steam Station				Site Visit - July 30, 2014 - gathered information in support of future permit application review and give input on question for application submittal.		EAP's received for dams at Belew's Lake and Dan River Facilities. Received 8/11/14.	Review comments submitted to Dam Safety Engineer on 8/11/14.	
					Site Visit - July 3 , 2014 - gathered information in support of future permit application review and give input on question for application submittal.				p a R
	 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 				Submittai.				F
	11 Mayo Power Station								

14 H.F. Lee Power Station

12 Roxboro Power Station13 Weatherspoon Power Station

Dam Safety List of Inspections, (Date and General Findings)

Duke Dan River Phase 1 (this is for the decommissioning of coal plant), 9/11/14; Duke Dan River Phase 2 (this is for the decommissioning of coal plant), 9/11/14; Duke Dan River-New Boat Ramp (this plan also includes areas disturbed for emergency dam repairs), 9/11/14; Duke Energy Dan River & Town Creek Mitigation, 9/11/14; Dam breach repair area and the Primary Pond Secondary Containment repairs on ROCKI-237-H; 9/11/14

10 Sutton Power Station SW8 110201 received 6/29/14 6/27/14 Received 6/11/14 Consultant Engineering Consultant Engineering Assessment letter 7/25/14; Duke Sutton Power Station Energy response 7/30/14 NOI 8/5/2014; NOI Response	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 Application Received/Pending
3 Buck Steam Station 4 Cliffside Steam Station 5 Dan River Steam Station 5 Dan River Steam Station 6 Marshall Steam Station 6 Marshall Steam Station 6 Marshall Steam Station 7 Riverbend Steam Station 8 Asheville Power Station 9 Cape Fear Power Station 9 Cape Fear Power Station 9 Cape Fear Power Station 8 Marshall Steam Station 9 Cape Fear Power S		1 Allen Steam Station	, , , , ,					, 0
4 Cliffside Steam Station 5 Dan River Steam Station 5 Dan River Steam Station 6 Marshall Steam Station 6 Marshall Steam Station 7 Riverbend Steam Station 7 Riverbend Steam Station 8 Asheville Power Station 9 Cape Fear Power Station 9 Cape Fear Power Station 10 Sutton Power Station SW8 110201 received 6/29/14 Sutton Power Station SW8 110201 received 6/29/14 Sutton Power Station Received 6/11/14 Consultant Engineering Assessment letter 7/25/14; Duke Sutton Power Station Energy response 7/30/14 NOI 8/5/2014; NOI Response		2 Belews Creek Steam Station						
5 Dan River Steam Station 6 Marshall Steam Station 7 Riverbend Steam Station 7 Riverbend Steam Station 8 Asheville Power Station 9 Cape Fear Power Station 9 Cape Fear Power Station 9 Cape Fear Power Station NOI 6/17/14; NOI Response Video of outfall inspection 10 Sutton Power Station SW8 110201 received 6/29/14 SW8 110201 received 6/29/14 Received 6/11/14 Received 6/11/14 Sutton Power Station SW8 110201 received 6/29/14 Received 6/11/14 Received 6/11/14 Sutton Power Station SW8 110201 received 6/29/14 Received 6/11/14 Received 6/11/14 Sutton Power Station SW8 110201 received 6/29/14 Received 6/11/14 Received 6/11/14 Sutton Power Station SW8 110201 received 6/29/14 Received 6/11/14 Received 6/11/14 Sutton Power Station SW8 110201 received 6/29/14 Received 6/11/14 Received 6/11/14 Sutton Power Station SW8 110201 received 6/29/14 Received 6/11/14 Received 6/11/14		3 Buck Steam Station						
6 Marshall Steam Station 7 Riverbend Steam Station 8 Asheville Power Station 9 Cape Fear Power Station 10 Sutton Power Station Sutton Power Station Sutton Power Station Sutton Power Station		4 Cliffside Steam Station						
7 Riverbend Steam Station 8 Asheville Power Station 9 Cape Fear Power Station 9 Cape Fear Power Station 10 Sutton Power Station SW8 110201 received 6/29/14 Sutton Power Station SW8 110201 received 6/29/14 Sutton Power Station Energy response 7/30/14 NOI 8/5/2014; NOI Response		5 Dan River Steam Station						
8 Asheville Power Station 9 Cape Fear Power Station 10 Sutton Power Station Sutton Power Stat		6 Marshall Steam Station						
9 Cape Fear Power Station 10 Sutton Power Station Sutton Power S		7 Riverbend Steam Station						
Final Designer's Certification No. NOI 6/17/14; NOI Response Video of outfall inspection 10 Sutton Power Station SW8 110201 received 6/29/14 6/27/14 Received 6/11/14 Sutton Power Station SW8 110201 received 6/29/14 Consultant Engineering Assessment letter 7/25/14; Duke Sutton Power Station Energy response 7/30/14 NOI 8/5/2014; NOI Response Video of outfall inspection		8 Asheville Power Station						
10 Sutton Power Station 6/27/14 Received 6/11/14 Consultant Engineering Consultant Engineering Assessment letter 7/25/14; Duke Sutton Power Station Energy response 7/30/14 Energy response 7/30/14		9 Cape Fear Power Station						
10 Sutton Power Station SW8 110201 received 6/29/14 6/27/14 Received 6/11/14 Consultant Engineering Assessment letter 7/25/14; Duke Assessment letter 7/25/14; Duke Sutton Power Station Energy response 7/30/14 NOI 8/5/2014; NOI Response			Final Designer's Certification No.				NOI 6/17/14; NOI Response	Video of outfall inspection
Sutton Power Station Assessment letter 7/25/14; Duke Sutton Power Station Energy response 7/30/14 NOI 8/5/2014; NOI Response NOI 8/5/2014; NOI Response		10 Sutton Power Station					6/27/14	Received 6/11/14
Sutton Power Station NOI 8/5/2014; NOI Response							Consultant Engineering	
NOI 8/5/2014; NOI Response							Assessment letter 7/25/14; Duke	
		Sutton Power Station					Energy response 7/30/14	
9/01/14 EAD Descrived 9/5/14							NOI 8/5/2014; NOI Response	
Sulton rower Station 8/21/14 EAP Received 8/5/14		Sutton Power Station					8/21/14	EAP Received 8/5/14
11 Mayo Power Station		11 Mayo Power Station						
		-						

12 Roxboro Power Station

13 Weatherspoon Power Station

14 H.F. Lee Power Station

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Dam Safety Application Status

Dam Safety List of Inspections, (Date and General Findings)

		Stormwater List of Letters	List of Stormwater Applications	Stormwater	Stormwater List of Inspections,	Dam Safety List of Letters	List of Dam Safety Applications	
N	 Plant Name Allen Steam Station Belews Creek Steam Station Buck Steam Station Cliffside Steam Station Dan River Steam Station Marshall Steam Station Riverbend Steam Station Asheville Power Station 	Sent/Received (with Date)	Received/Pending	Application Status	(Date and General Findings)	Sent/Received (with Date)	Received/Pending	Dam Safety Application Status
	8 Ashevine 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	*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	*Comments sent to central office
	0 Cone Foor Dower Station					Report; NOD Response received	CHATH-079 received 8/8/14	*Under review 8/31/14. *Under
	9 Cape Fear Power Station 10 Sutton Power Station					8/21/14.	from central office.	review 8/31/14.
	11 Mayo Power Station					*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. *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	*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. *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	
	12 Douborg Douror Station					Report; NOD Response received	office	*Under review 9/21/14

12 Roxboro Power Station

13 Weatherspoon Power Station

14 H.F. Lee Power Station

Dam Safety List of Inspections, (Date and General Findings)

14

D-037 *Follow-up letter sent 8/12/14.

SO-

office.

8/21/14.

*Under review 8/31/14.

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
NO	1 Allen Steam Station	Sent/heceived (with Date)	Received/Tending	Application Status	(Date and General Findings)	Sent/Received (with Date)	Received/Tending
	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						
						NOD 6/17/14; NOD Followup 8/12/14; NOD Response 6/27/14, 7/30/14, 8/4/14,	
	13 Weatherspoon Power Station					8/12/14; Hazard Class 8/28/14	9/10/14 As- built plans Rec'd;
	14 H.F. Lee Power Station						

Dam Safety Application Status

Dam Safety List of Inspections, (Date and General Findings)

> SELC Public Record Request 6/27/14;

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 Application Received/Pending
	1 Allen Steam Station						
	2 Belews Creek Steam Station						
	3 Buck Steam Station						
	4 Cliffside Steam Station						
	5 Dan River Steam Station						
	6 Marshall Steam Station						
	7 Riverbend Steam Station						
	8 Asheville Power Station						
	9 Cape Fear Power Station						
	10 Sutton Power Station						
	11 Mayo Power Station						
	12 Roxboro Power Station						
	13 Weatherspoon Power Station						
						NOI 6/26/14;NOI Response	
						7/30/14; NOD 8/6/14; NOD	
	14 H.F. Lee Power Station					Response 8/21/14 (WaRO)	

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Dam Safety Application Status

Dam Safety List of Inspections, (Date and General Findings)

No	Plant Name 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	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	Da
	8 Asheville Power Station 9 Cape Fear Power Station 10 Sutton Power Station				8/27/14 - Inspection to review submitted application info (Mike Randall).	BUNCO-089 - NOD 08/06/2014; NOD Response 08/18/14; EAP 8/11/14; BUNCO-097: LOI Response to Pipe Assessment 8/7/2014; EAP 8/11/14		
	11 Mayo Power Station							
	12 Roxboro Power Station 13 Weatherspoon Power Station							
	14 H.F. Lee Power Station							

Dam Safety Application Status

Dam Safety List of Inspections, (Date and General Findings)

8/27/14 - inspect BUNCO-089; LOI pending. 8/27/14 - inspect BUNCO-097; LOI pending. 8/27/14 - inspect Asheville Dam Enhancement Phase 2 1964 Dam (BUNCO-2012-002). 8/27/2014 - inspect Phase 1 NPDES discharge line relocation (BUNCO-2012-001).

Plant Name

State Dam ID Dam Name Letters List of Stormwater Inspections, [Date Sent/Received Applications Stormwater and General List of Dam Safety Applications (with Date) Received/Pending Application Status Findings) Dam Safety List of Letters Sent/Received (with Date) Received/Pending Dam Safety Application Status Allen Steam Station 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-061 Allen Active Ash Basin Dam NOD 6/13/14; Initial Response rec'd 6/25/14; Pipe evaluation report rec'd 7/31/14; NDD 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 Belews Creek Steam Station NO16/26/14; 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 STOKE-116 Belews Creek Active Ash Basin Dam Buck Steam Station 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-047 Buck Steam Station Main Dam Buck Steam Station New (Additional ROWAN-068 Primary) Dam N/A EAP rec'd 7/31/14 EAP pending review Buck Steam Station Basin 1 to Basin 2 ROWAN-069 Dam NOD 6/13/14; Initial Response rec'd 6/25/14; 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 Buck Steam Station Basin 2 to Basin 3 ROWAN-070 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 N/A EAP rec'd 7/31/14 ROWAN-071 Buck Steam Station Divider Dam EAP pending review Cliffside Steam Station (Previous NOD 3/5/14); NOD 6/13/14; Initial Response rec'd 6/26/34; Pope evaluation report rec'd 7/28/14; NOD followup (plan required) sent 8/11/14 EAP pending review Cliffside Inactive Ash Basin #S Main RUTHE-070 Dam Cliffside Inactive Ash Basin #5 Saddle RUTHE-072 Dam N/A EAP rec'd 7/31/14 EAP pending review N/A EAP recd 7/31/14 EAP pending review N/A EAP recd 7/31/14 EAP pending review Cliffside Active Ash Basin Upstream CLEVE-050 Dam Cliffside Active Ash Pond Downstream CLEVE-049 Dam NOD 6/13/14; Initial Response rec'd 6/26/14; Pipe evaluation report rec'd 7/31/14; NDD followup (plan required) sent 8/11/14 EAP rec'd 7/31/14; Plan due date 9/26/14 EAP pending review Cliffside Inactive Ash Basin 1-4 Main CLEVE-047 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 Dan River Steam Station N/A EAP rec'd 7/31/14 EAP pending review ROCKI-237 Dan River Active Primary 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 ROCKI-238 Dan River Active Secondary Ash Basin Marshall Steam Station NO16/12/14; Initial Response rec'd 6/26/14; Pipe evaluation // 7/31/14; Repair plan rec'd 6/15/14; Pipe evaluation // 7/31/14; Repair plan rec'd 8/26/14; Pipe one diffuation plan // 28/26/14; Pipe one diffuation plan // 28 CATAW-054 Marshall Active Ash Basin Dam Riverbend Steam Station Riverbend Active Ash Basin Dam 1 GASTO-097 (Primary) N/A EAP rec'd 7/31/14 EAP pending review Riverbend Active Ash Basin Dam 2 GASTO-098 (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 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 GASTO-099 Riverbend Ash Basin Intermediate Dam EAP pending review Asheville Power Station 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 rec'd 7/31/14; Plan due date 10/13/14 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; NOI follow-up 8/16/14 EAP rec'd 7/31/14 EAP pending review BUNCO-097 Asheville 1964 Ash Pond Dam Cape Fear Power Station 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-075 Cape Fear 1956 Ash Pond (Inactive) Cape Fear 1963 Ash Pond Dam CHATH-076 (Inactive) N/A N/A Cape Fear 1970 Ash Pond Dam CHATH-077 (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 NOD 6/26/14; Initial Response rec'd 7/214; 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-078 Cape Fear 1978 Ash Pond Dam Modification application red's (2/11; LeP Revisions requested for modification (Previous NDD 3/28/14): Pipe NDI 6/26/14; Initial Response red's (2/11/14): Repair application red's (2/11/14): Repair applicat CHATH-079 Cape Fear 1985 Ash Pond Dam Sutton Power Station 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 NEWHA-005 Sutton 1984 Ash Pond EAP pending review NOI 6/17/14; Initial Response rec'd 6/27/14; Pipe evaluation report rec'd 7/31/14; Dam is exempt EAP rec'd 7/31/14 EAP pending review NEWHA-004 Sutton 1971 Ash Pond Mayo Power Station 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 PERSO-035 Mayo Ash Pond Dam EAP pending review Roxboro Power Station N/A EAP rec'd 7/31/14 PERSO-038 Roxboro West Ash Pond Dam EAP pending review Roxboro West Ash Pond South Rock PERSO-039 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 N/A N/A N/A PERSO-033 Roxboro East Ash Pond Weatherspoon Power Station NOD 6/17/15; Initial Reponse rec'd 6/27/14; EAP Repair plans rec'd 5/11/34; EAP rec'd Repair plans approved 6/27/14; EAP report rec'd 7/31/16; NOD followup (plan required) sent 8/8/14 duo date in/31/14 senter se ROBES-009 Weatherspoon 1979 Ash Pond H.F. Lee Power Station 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 WAYNE-022 H.F. Lee Active Ash Pond

No	Plant Name 1 Allen Steam Station	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 Applicatio Received/Pending
	2 Belews Creek Steam Station	Addition Information Request sent Aug 26, 2014	Application Received - August 1, 2014	In Review, Waiting for Add Info	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						
	4 Cliffside Steam Station	 Addition Information Request sent - Aug 26, 2014 - Stormwater Data Submittal Received - Aug 28, 2014 - not responsive to all add-inf 	Application Received - August 4, 2014	In Review, Waiting for Add Info			
	5 Dan River Steam Station	Addition Information Request sent Aug 26, 2014	Application Received - August 1, 2014	In Review, Waiting for Add Info	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						
	7 Riverbend Steam Station	 Acknoledgement Letter - June 6, 2014 Additonal information letter sent - June 26, 2014 Additional Info received - July 15, 2014 Second Add Info Letter Sent - Julu 30, 2014 Additional Info received - August 19, 2014 	Revised Application Received - May 16, 2014	Pre-draft to Dept and EPA.	Site Visit - June 20 , 2014 - gathered information in support of permit application review.		
	8 Asheville Power Station	Addition Information Request sent Aug 26, 2014	Application Received - July 31, 2014	In Review, Waiting for Add Info	Site Visit - August 27 , 2014 - gathered information in support of permit application review.		
	9 Cape Fear Power Station 10 Sutton Power Station	Addition Information Request sent Aug 26, 2014	Application Received - July 31, 2014	In Review, Waiting for Add Info			
	11 Mayo Power Station						
	12 Roxboro Power Station						
	13 Weatherspoon Power Station						
	14 H.F. Lee Power Station						

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Dam Safety Application Status

Dam Safety List of Inspections, (Date and General Findings)