GENERAL ASSEMBLY OF NORTH CAROLINA SESSION 2013

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HOUSE BILL 1228*

| Short Title: | Governor's Coal Ash Action Plan. | (Public) |
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| Sponsors: | Representatives McGrady, Samuelson, and Hager (Primary Sponsors). For a complete list of Sponsors, refer to the North Carolina General Assembly We | eb Site. |
| Referred to: | Environment, if favorable, Public Utilities and Energy. | |

May 28, 2014

A BILL TO BE ENTITLED

2 AN ACT TO (1) CHANGE NOTIFICATION REQUIREMENTS APPLICABLE TO 3 DISCHARGES OF WASTEWATER; (2) ESTABLISH COAL COMBUSTION 4 PRODUCTS IMPOUNDMENT WATER MONITORING PROGRAM; (3) IDENTIFY 5 AND ADDRESS UNPERMITTED WASTEWATER DISCHARGES AT COAL 6 COMBUSTION PRODUCTS IMPOUNDMENT SITES; (4) AMEND S.L. 2009-390; (5) 7 REQUIRE EMERGENCY ACTION PLANS FOR HIGH AND INTERMEDIATE 8 HAZARD DAMS; (6) CHANGE NOTIFICATION REQUIREMENTS APPLICABLE TO 9 DAM REPAIRS; (7) INCREASE COAL COMBUSTION PRODUCTS IMPOUNDMENT 10 INSPECTION REQUIREMENTS; (8) MODIFY THE DEFINITION OF SOLID WASTE TO INCLUDE REMOVED COMBUSTION PRODUCTS: (9) PLACE A TEMPORARY 11 12 MORATORIUM ON THE USE OF COAL COMBUSTION PRODUCTS AS 13 STRUCTURAL FILL; AND (10) ESTABLISH REQUIREMENTS FOR COAL COMBUSTION PRODUCTS IMPOUNDMENT CLOSURE. 14

Whereas, the issue of coal ash storage has not been adequately addressed in NorthCarolina for more than six decades; and

Whereas, on February 2, 2014, an estimated 39,000 tons of coal ash was released into the Dan River following the failure of a stormwater pipe under a utility coal ash impoundment pond in Eden, North Carolina; and

Whereas, the Department of Environment and Natural Resources ("Department") finds that coal combustion products have settled into the sediment of the river bottom and will require an extensive clean-up plan to complete remediation; and

Whereas, the Department is in the process of reassessing previous efforts at achieving compliance at coal ash facilities and developing short term and long term policies in light of the Dan River spill, violations discovered in light of increased inspections of coal combustion products disposal facilities and anticipated new federal regulations on coal combustion products; and

- Whereas, it is the intent of the Department to ensure that spills of wastewater are reported to the Department in a defined and adequate time frame; and
- 30 Whereas, it is the intent of the Department to protect surface water and groundwater 31 resources for their best usage; and
- 32 Whereas, it is the intent of the Department to ensure that all unpermitted 33 wastewater discharges are eliminated or addressed in an environmentally responsible manner; 34 and



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Whereas, it is the intent of the Department to equally subject all dams under 1 2 jurisdiction of G.S. 143-215.23 to the requirements of statute and administrative code; and 3 Whereas, it is the intent of the Department for the owners of all dams under 4 jurisdiction of G.S. 143-215.23 deemed intermediate and high hazard by the Department to 5 prepare at their own cost documents that describe full and adequate response to emergency 6 situations at their dams and to submit those documents to the Department; and 7 Whereas, it is the intent of the Department to ensure that emergency situations 8 at dams are reported to the Department in a defined and adequate time frame; and 9 Whereas, the it is the intent of the Department to increase oversight of dam 10 structure integrity to protect the health and safety of the public; and 11 Whereas, state law exempts coal combustion products removed from 12 impoundments from being defined as a solid waste; and 13 Whereas, the Department finds that consistent environmental standards should 14 apply to coal combustion products removed from impoundments for management or 15 disposal and coal combustion products managed or disposed of as a solid waste; and 16 Whereas, the Department finds the federal Environmental Protection Agency is 17 under consent decree to complete new regulations by December 2014 for coal combustion 18 products that are proposed to bring consistency to requirements for large fills such as structural 19 fills and landfills; and 20 Whereas, the Department finds that conversion and closure of coal ash storage 21 ponds is necessary for protection of the health and safety of the public; Now, therefore, 22 The General Assembly of North Carolina enacts: 23 24 PART I. NOTIFICATION REQUIREMENTS APPLICABLE TO DISCHARGES OF 25 WASTEWATER 26 SECTION 1. G.S. 143-215.1C reads as rewritten: 27 "§ 143-215.1C. Report to wastewater system customers on system performance; report 28 discharge of untreated wastewater and wastewater containing coal combustion 29 products to the Department; publication of notice of discharge of untreated 30 wastewater and waste. 31 Report to Wastewater System Customers. - The owner or operator of any (a) 32 wastewater collection or treatment works, the operation of which is primarily to collect or treat 33 municipal or domestic wastewater and for which a permit is issued under this Part and having 34 an average annual flow greater than 200,000 gallons per day, shall provide to the users or 35 customers of the collection system or treatment works and to the Department an annual report 36 that summarizes the performance of the collection system or treatment works and the extent to 37 which the collection system or treatment works has violated the permit or federal or State laws, 38 regulations, or rules related to the protection of water quality. The report shall be prepared on 39 either a calendar or fiscal year basis and shall be provided no later than 60 days after the end of 40 the calendar or fiscal year. 41 (a1) Report of Discharge of Untreated Wastewater or Wastewater Containing Coal 42 Combustion Products to the Department. – The owner or operator of any wastewater collection or treatment works shall report a discharge of 1,000 gallons or more of untreated wastewater or 43 wastewater containing coal combustion products, or a spill of any amount of untreated 44 45 wastewater or wastewater containing coal combustion products that reaches waters of the State to the Department as soon as possible but not later than 24 hours after first knowledge of the 46 47 spill. This reporting requirement shall be in addition to any other reporting requirement 48 applicable to the owner or operator of the wastewater collection or treatment works. 49 Publication of Notice of Discharge of Untreated Wastewater. - The owner or (b)

50 operator of any wastewater collection or treatment works, the operation of which is primarily to

| 1 | | unicipal or domestic wastewater and for which a permit is issued under this |
|----------------|-------------------|---|
| 2 | Part-shall: | |
| 3 | (1) | In the event of a discharge of 1,000 gallons or more of untreated wastewater |
| 4 | | or wastewater containing coal combustion products to the surface waters of |
| 5 6 | | the State, issue a press release to all print and electronic news media that |
| 6 7 | | provide general coverage in the county where the discharge occurred setting out the details of the discharge. The super or operator shall issue the press |
| 8 | | out the details of the discharge. The owner or operator shall issue the press release within 48-24 hours after the owner or operator has determined that |
| 8 9 | | the discharge has reached the surface waters of the State. first knowledge of |
| 10 | | the spill. The owner or operator shall retain a copy of the press release and a |
| 10 | | list of the news media to which it was distributed for at least one year after |
| 12 | | the discharge and shall provide a copy of the press release and the list of the |
| 13 | | news media to which it was distributed to any person upon request. |
| 14 | (2) | In the event of a discharge of 15,000 gallons or more of untreated |
| 15 | () | wastewater to the surface waters of the State, publish a notice of the |
| 16 | | discharge in a newspaper having general circulation in the county in which |
| 17 | | the discharge occurs and the county immediately downstream and in each |
| 18 | | county downstream from the point of discharge that is significantly affected |
| 19 | | by the discharge. The Secretary shall determine, at the Secretary's sole |
| 20 | | discretion, which counties are significantly affected by the discharge and |
| 21 | | shall approve the form and content of the notice and the newspapers in |
| 22 | | which the notice is to be published. The notice shall be captioned "NOTICE |
| 23 | | OF DISCHARGE OF UNTREATED SEWAGE". The owner or operator |
| 24 | | shall publish the notice within 10 days after the Secretary has determined the |
| 25 | | counties that are significantly affected by the discharge and approved the |
| 26 | | form and content of the notice and the newspapers in which the notice is to |
| 27 | | be published. The owner or operator shall file a copy of the notice and proof of publication with the Department within 20 days often the notice is |
| 28 29 | | of publication with the Department within 30 days after the notice is published. Publication of a notice of discharge under this subdivision is in |
| 29 30 | | addition to the requirement to issue a press release under subdivision (1) of |
| 31 | | this subsection. |
| 32 | (c) Public | eation of Notice of Discharge of Untreated Waste as defined in |
| 33 | | . – The owner or operator of any wastewater collection or treatment works, |
| 34 | | tewater collection or treatment works the operation of which is primarily to |
| 35 | | unicipal or domestic wastewater, for which a permit is issued under this Part |
| 36 | wastewater shall: | • |
| 37 | (1) | In the event of a discharge of 1,000 gallons or more of untreated waste to the |
| 38 | | surface waters of the State, issue a press release to all print and electronic |
| 39 | | news media that provide general coverage in the county where the discharge |
| 40 | | occurred setting out the details of the discharge. The owner or operator shall |
| 41 | | issue the press release within $48-24$ hours after the owner or operator has |
| 42 | | determined that the discharge has reached the surface waters of the State. <u>first</u> |
| 43 | | knowledge of the spill. The owner or operator shall retain a copy of the press |
| 44 45 | | release and a list of the news media to which it was distributed for at least |
| 45 46 | | one year after the discharge and shall provide a copy of the press release and the list of the news media to which it was distributed to any person when |
| 40 47 | | the list of the news media to which it was distributed to any person upon request |
| 47 48 | (2) | request. In the event of a discharge of 15,000 gallons or more of untreated waste to |
| 40 49 | (2) | the surface waters of the State, publish a notice of the discharge in a |
| 5 0 | | newspaper having general circulation in the county in which the discharge |
| 51 | | occurs and the county immediately downstream and in each county |
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| 1 2 3 | | downstream from the point of discharge that is significant discharge. The Secretary shall determine, at the Secretary which counties are significantly affected by the discharge | y's sole discretion, |
| 4 | | the form and content of the notice and the newspapers in | 11 |
| 5 | | to be published. The notice shall be captioned "NOTICE | |
| 6 | | OF UNTREATED WASTE". The owner or operator shall | |
| 7 | | within 10 days after the Secretary has determined the | |
| 8 | | significantly affected by the discharge and approved the f | |
| 9 10 | | the notice and the newspapers in which the notice is to owner or operator shall file a copy of the notice and pr | _ |
| 10 | | with the Department within 30 days after the notice is pub | - |
| 12 | | of a notice of discharge under this subdivision is i | |
| 13 | | requirement to issue a press release under subdivision (1) | |
| 14 | | | |
| 15 | PART II. COAL | COMBUSTION PRODUCTS IMPOUNDMENT WAT | ΓER |
| 16 | MONITORING 1 | | |
| 17 | | ION 2. Article 21 of Chapter 143 of the General Statu | tes is amended by |
| 18 | adding a new section | | |
| 19 20 | | coal combustion products impoundment water monitori | |
| 20 21 | | lwater Assessment – Owners of coal ash impoundme public utilities shall conduct groundwater monitoring | |
| 22 | following schedule | | according to the |
| 23 | (1) | No later than 45 days from enactment of this Act, the ow | ner shall submit to |
| 24 | <u></u> / | the Division of Water Resources a Plan of proposed asses | |
| 25 | | evaluate groundwater impacts from all coal com | |
| 26 | | impoundments located at all investor owned public utility | ies. At a minimum |
| 27 | | the plan shall: | |
| 28 | | a. <u>Identify all receptors and significant exposure path</u> | |
| 29 | | b. Assess horizontal and vertical extent of soil | - |
| 30 31 | | <u>contamination for all contaminants confirmed</u> groundwater in exceedance of groundwater qualit | |
| 32 | | significant factors affecting contaminant transport. | - |
| 33 | | c. Identify the geological and hydrogeological feature | |
| 34 | | movement, chemical, and physical character of the | - |
| 35 | | d. Propose a schedule for continued groundwater mor | |
| 36 | | Upon review and approval by the Division of Water | er Resources, the |
| 37 | | investor-owned public utility shall initiate assessment activ | |
| 38 | <u>(2)</u> | No later than 180 days from the Division of Water | |
| 39 | | approval of the Plan required under subdivision (1) of su | |
| 40 | | section, or a time frame otherwise approved by the I | |
| 41 42 | | Resources, the owner shall submit a Report detailing t | - |
| 42 43 | | <u>Plan. The Report shall set forth the extent of any and all</u> groundwater quality standards. | exceedances of the |
| 44 | <u>(3)</u> | No later than 270 days from the Division of Water | Resources' written |
| 45 | <u>(5)</u> | approval of the Plan required under subdivision (1) of su | |
| 46 | | section, or a time frame otherwise approved by the I | |
| 47 | | Resources, the owner shall submit to the Division of V | |
| 48 | | proposed Corrective Action Plan. The Corrective Action | |
| 49 | | minimum, contain: | |

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| <u>a.</u> | A listing of all exceedances of the gr | oundwater quality standards |
| | including any exceedances that the ow | ner asserts are the result of |
| | natural background conditions. | |
| <u>b.</u> | Except as provided in subsubdivision | n f. of this subdivision, a |
| | description of the proposed corrective | action employing the best |
| | available technology for the restoration | of groundwater quality to the |
| | level of the groundwater quality star | ndards and reasons for its |
| | selection. | |
| <u>c.</u> | Specific plans, including engineering d | letails where applicable, for |
| | restoring groundwater quality. | |
| <u>d.</u> | A schedule for the implementation of the | e proposed corrective action |
| | <u>plan.</u> | |
| <u>e.</u> | A monitoring plan for evaluating the e | ± ± |
| C | corrective action and the movement of th | |
| <u>f.</u> | The owner may request alternative reme | |
| (4) NT 1 | the requirements of 15A NCAC 2L .010 | |
| | ter than 30 days from the Division of Wa | * * |
| | Corrective Action Plan, the owner | - |
| | ctive Action Plan in accordance with | |
| | ion of Water Resources. The approval or solution of the second solution of the second solution of the second secon | |
| | ter Assessment. – Within 60 days of enac | |
| | located at all investor-owned public utilit | |
| | r Resources a water supply receptor surve | |
| | lius of 2,640 feet (0.5 mile) from the estab | |
| | The owner shall sample each receptor id | - |
| - | ny well exceeding the groundwater standa | • |
| | supply of potable drinking water. | <u> </u> |
| · · · · | prting Requirement. – In addition to any o | other reports required by the |
| Division of Water Resou | irces, the owners of coal combustion produ | icts impoundments located at |
| all investor owned pub | lic utilities shall submit an annual report | rt to the Division of Water |
| Resources no later than | January 31 of each year. The Annual report | t shall include a summary of |
| all monitoring data colle | ected over the year, status of Plans and Fi | nal Corrective Action Plans, |
| and a summary of water | supply receptor survey results." | |
| | | |
| | AND ADDRESS UNPERMITTED WA | |
| | AL COMBUSTION PRODUCTS IMP | |
| | Article 21 of Chapter 143 of the Gen | eral Statutes is amended by |
| adding a new section to | | |
| | ify and address unpermitted waste | water discharges at coal |
| | products impoundment sites. | |
| | <u>constion products impoundments l</u> | |
| | lement the plan described in subsections (| |
| - | any unpermitted discharges to surface wat | ers at those coal combustion |
| (b) No later tha | | the owner shall submit a |
| | n 90 days from enactment of this act, scale approved by Division of Water I | |
| | from engineered channels designed and/or | |
| | e toe of the coal combustion products imp | |
| the map will: | e toe of the cour compusition products mip | oundments. I or each outfall, |
| | fy its latitude and longitude. | |
| | y no futtude und fongitude. | |

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| 1 | (2) | Specify whether the discharge is continuous or intermittent. | |
| 2 | $\overline{(3)}$ | Provide an average flow measurement, including a descript | |
| 3 | | used to measure flow. | |
| 4 | With the top | ographic map, the owner will submit to the Division of W | later Resources a |
| 5 | | ng to which the owner shall conduct water quality sampling | |
| 6 | | to further characterize the discharging water. No later the | |
| 7 | | p and sampling schedule, Division of Water Resources will | |
| 8 | with review com | ments, either approving the plan or noting any deficiencies to | be corrected and |
| 9 | a date by which | a corrected map and/or sampling schedule is to be submitted | for further review |
| 10 | and comment. W | Vithin 30 days of approval of the schedule by the Division of | Water Resources, |
| 11 | the owner shall | begin to sample the toe drain outfalls in accordance with | the schedule and |
| 12 | submit the samp | les for water quality analysis. Water quality analyses shall | include the same |
| 13 | parameters requi | ired for a coal-fired power plant per EPA Application Form | <u>2C – Wastewater</u> |
| 14 | Discharge Inform | nation, Consolidated Permits Program (EPA Form 3510-2C, | August 1990). If |
| 15 | the owner demo | nstrates to the satisfaction of Division of Water Resources t | hat sampling of a |
| 16 | toe drain outfall | is unlikely to generate usable data or is otherwise infeasible, t | the owner will not |
| 17 | be required to sa | mple that toe drain outfall. | |
| 18 | <u>(c)</u> <u>No la</u> | ter than 180 days from the enactment of this act, the own | er shall submit a |
| 19 | topographic map | at a scale approved by the Division of Water Resources | that indicates the |
| 20 | | seeps or drains reflecting discharges from the ash ponds bu | |
| 21 | • • | l channel identified pursuant to subsection (b) of this section | • • |
| 22 | | believed to not reflect flows from any of the ash ponds | |
| 23 | - | Division of Water Resources the basis for such belief, inclu | |
| 24 | - | lity testing information. For the seeps from the impoundment | ts, the map will: |
| 25 | <u>(1)</u> | Specify its latitude and longitude. | |
| 26 | <u>(2)</u> | Specify whether the discharge is continuous or intermittent. | |
| 27 | <u>(3)</u> | Provide an average flow measurement, including a description | ion of the method |
| 28 | | used to measure flow. | |
| 29 | <u>(4)</u> | Specify whether the discharge from the seep reaches surface | |
| 30 | <u>(5)</u> | If the discharge from the seep reaches surface water, ide | |
| 31 | | where the seep reaches surface water on the map to inc | lude latitude and |
| 32 | | longitude. | |
| 33 | | ter than 180 days from the enactment of this act, the owner s | |
| 34 | | ether toe drain or seep discharges from the impoundments have | |
| 35 | | te and are causing violations of surface water quality standard | <u>is. The plan shall</u> |
| 36 | include the follo | | all abagunala that |
| 37 | <u>(1)</u> | Sampling locations upstream and downstream within a | all channels that |
| 38 | (2) | potentially carry such discharges. | no manying of fam. a |
| 39 40 | <u>(2)</u> | Water quality analyses shall include the same parameter | |
| 40 41 | | <u>coal-fired power plant per EPA Application Form 2</u> | |
| 41 42 | | Discharge Information, Consolidated Permits Program (EP. | <u>A FOIII 5510-2C,</u> |
| 42 43 | (2) | <u>August 1990).</u> Eraguancy and duration of the compling activities | |
| 43 44 | $\frac{(3)}{(4)}$ | Frequency and duration of the sampling activities. | |
| 44 45 | | <u>Reporting requirements.</u> 30 days from receipt of the plan, the Division of Water Reso | uraa will provida |
| 46 | | review comments, either approving the plan, or noting any | |
| 40 47 | | date by which a corrected plan is to be submitted for fu | |
| 48 | | roval. Within 180 days from the Division of Water Resource | |
| 48 49 | ** | will implement and complete the plan and submit a report | * * |
| 50 | work and its resu | · · · · · | <u>sammanzing tilat</u> |

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| 1 | (e) If the Division of Water Resources determines, based on information | submitted |
| 2 | pursuant to subsections (b) through (d) of this section, that discharges, whether from | |
| 3 | or seeps, are causing a violation of G.S. 143-215.1 or any other law, it shall so | |
| 4 | owner. Within 120 days of such notification, the owner shall do one of the following | |
| 5 | (1) Stop the discharge. | <u>.</u> |
| 6 | (2) <u>Capture and route the discharge so that it is discharged through a</u> | n NDDES |
| 7 | permitted outfall. | |
| 8 | | Division |
| 9 | of Water Resources pursuant to subsection (f) of this section. | |
| 0 | (4) <u>Propose alternative Best Management Practices subject to the appresent</u> | oval of the |
| 1 | Division of Water Resources. | |
| 2 | (5) Apply for an NPDES discharge permit or permit amendment to re | egulate the |
| 3 | discharge. | - |
| 4 | (f) No later than 180 days from the date of enactment of this act, The or | wner shall |
| 5 | submit to the Division of Water Resources for approval a set of best management | t practices |
| 6 | designed to prevent unpermitted discharges of pollutants from the ash ponds to surfa | ce waters. |
| 7 | Thereafter, the owner may submit additional best management practices for the D | |
| 8 | Water Resources approval. | |
| 9 | (g) No later than 30 days from enactment of this act, the owner shall sub | mit to the |
| 0 | Division of Water Resources a plan for identifying new seeps on the dike areas | |
| 1 | ponds that arise after the submission of the maps described in subsections (b) and | |
| 2 | section. The plan shall include, at a minimum, the following elements: | (c) of this |
| 3 | (1) A procedure for routine inspection of the coal combustion | products |
| 3 4 | impoundment areas to identify indicators of potential new seeps. | products |
| 5 | (2) A decision flow chart (including criteria and procedures) for de | etermining |
| 6 | whether a new seep is actually present. | |
| .7 | (3) <u>A procedure for notifying the Division of Water Resources after a</u> | now soon |
| .8 | is confirmed. | <u>new seep</u> |
| 9 | | ill marrida |
| 0 | <u>No later than 30 days from receipt of the plan, the Division of Water Resources w</u> the owner with review comments noting any deficiencies. | in provide |
| 1 | (h) No later than 12 months from the enactment of this act, the owner shall s | ubmit ony |
| | | |
| 2 | information, forms, and fees necessary to request that the Division of Water | |
| 3 | incorporate the process described in subsections (b) through (g) of this section into the | ne owner's |
| 4 | <u>NPDES permit.</u> " | |
| 5 | | |
| 6 | PART IV. AMEND S.L. 2009-390 (SB 1004) | |
| 7 | SECTION 4. Section 3.(b) of S.L. 2009-390 is repealed. | |
| 8 | | |
| 9 | PART V. EMERGENCY ACTION PLANS | |
| 0 | SECTION 5. G.S. 143-215.31 is amended by adding two subsections to r | read: |
| 1 | "§ 143-215.31. Supervision over maintenance and operation of dams. | |
| -2 | | |
| 3 | (f) Develop Emergency Action Plan. – Owners of high and intermediate ha | <u>zard dams</u> |
| 4 | shall develop at their cost an Emergency Action Plan for their dam in document | |
| 5 | triplicate copy to be submitted to the Department by January 1, 2015. The emerger | ncy action |
| -6 | <u>plan at minimum shall:</u> | |
| 7 | (1) Identify potential emergency conditions that can occur at the dam. | |
| 8 | (2) List preplanned actions to be taken during an emergency condit | ion at the |
| 9 | dam. | |
| 50 | (3) Document emergency notification procedures to aid in war | ming and |
| 51 | evacuations during an emergency condition at the dam. | |
| | | |

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| 1 | (4) Provide a downstream inundation map depicting areas aff | ected by a dam |
| 2 | failure and sudden release of the impoundment. | |
| 3 | If a dam owner fails to provide the Department with an Emergency Action | Plan in triplicate |
| 4 | copy by January 1, 2015, it shall be subject to Enforcement Procedures under | |
| 5 | Dam owners shall update their emergency action plans annually and submit the | |
| 6 | in triplicate copy to the Department each year subsequent to January 1, 2015. | |
| 7 | shall provide the appropriate local Emergency Management Agency and the Re | |
| 8 | the Department with the triplicate copy. | 1 . |
| 9 | (g) <u>Confidentiality of Sensitive Public Security Information – To the</u> | |
| 10 | documents included in the Emergency Action Plan developed under this | |
| 11 | sensitive public security information, those portions of documents shall not | <u>ot be subject to</u> |
| 12 | disclosure under the North Carolina Public Records Act." | |
| 13 | DADT VI NOTIFICATION OF EMEDGENCY DEDAID OF A DAM | |
| 14 | PART VI. NOTIFICATION OF EMERGENCY REPAIR OF A DAM SECTION 6. G.S. 143-215.27 reads as rewritten: | |
| 15 16 | "§143-215.27. Repair, alteration, or removal of dam. | |
| 10 17 | (a) Before commencing the repair, alteration or removal of a dam, app | lightion shall be |
| 17 | made for written approval by the Department, except as otherwise provided by | |
| 18 19 | application shall state the name and address of the applicant, shall adequately d | ~ |
| 20 | it proposes to effect and shall be accompanied by maps, plans and specificati | • |
| 20 | such details and dimensions as the Department requires. The Department may | - |
| 21 | requirements. The application shall give such other information concernir | - |
| 23 | reservoir required by the Department, such information concerning the safety of | • |
| 23 | it may require, and shall state the proposed time of commencement and co | |
| 25 | work. When an application has been completed it may be referred by the | 1 |
| 26 | agency review and report, as provided by subsection (b) of G.S. 143-215.2 | - |
| 27 | original construction. | |
| 28 | (b) When repairs are necessary to safeguard life and property they | may be started |
| 29 | immediately but the Department shall be notified forthwith of the proposed re | |
| 30 | work under way, way as soon as possible but not later than 24 hours after first k | T |
| 31 | necessity for emergency repairs, and they such repairs shall be made to conform | |
| 32 | | |
| 33 | PART VII. INSPECTION OF IMPOUNDMENTS | |
| 34 | SECTION 7. G.S. 143-215.32 is amended by adding two sections | to read: |
| 35 | "(e) Investor-owned public utilities shall inspect each coal comb | ustion products |
| 36 | impoundment weekly and after storms to detect evidence of any of the following | <u>ig:</u> |
| 37 | (1) Deterioration, malfunctions, or improper operation of s | spillway control |
| 38 | systems. | |
| 39 | (2) Sudden drops in the level of the impoundment's contents. | |
| 40 | (3) Severe erosion or other signs of deterioration in dikes or other | her containment |
| 41 | devices. | |
| 42 | (4) <u>New or enlarged seeps along the downstream slope or</u> | toe of the dike |
| 43 | or other containment devices. | |
| 44 | (5) Any other abnormal conditions at the impoundment that m | <u>ay pose a health</u> |
| 45 | or safety risk. | |
| 46 | If any abnormalities in subdivisions (1) through (5) of this subsection | |
| 47 | documentation shall be provided to a registered professional engineer for furt | ner investigation |
| 48 | and appropriate action. | 1 111 |
| 49 50 | (f) Each coal combustion products impoundment located at investor | |
| 50 | utilities shall be inspected annually by an independent registered profession | |
| 51 | assure structural integrity and that the design, operation, and maintenance | ; of the surface |

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1 impoundment are in accordance with generally accepted engineering standards. The owner or 2 operator must notify the Department by way of a certification by the independent registered 3 professional engineer that the dam is structurally sound and the design, operation, and 4 maintenance of the surface impoundment is in accordance with generally accepted engineering 5 standards. The inspection report shall be submitted to the Department within 30 days of the 6 completion of the inspection and shall be placed on a publicly accessible internet site." 7 8 PART VIII. DEFINITION OF SOLID WASTE 9 SECTION 8.(a) G.S. 130A-290(a)(35) reads as rewritten: 10 "(35) "Solid waste" means any hazardous or nonhazardous garbage, refuse or 11 sludge from a waste treatment plant, water supply treatment plant or air pollution control facility, domestic sewage and sludges generated by the 12 13 treatment thereof in sanitary sewage collection, treatment and disposal 14 systems, and other material that is either discarded or is being accumulated, 15 stored or treated prior to being discarded, or has served its original intended use and is generally discarded, including solid, liquid, semisolid or contained 16 17 gaseous material resulting from industrial, institutional, commercial and 18 agricultural operations, and from community activities. The term does not 19 include: 20 a. Fecal waste from fowls and animals other than humans. 21 b. Solid or dissolved material in: 22 1. Domestic sewage and sludges generated by treatment thereof 23 in sanitary sewage collection, treatment and disposal systems 24 which are designed to discharge effluents to the surface 25 waters. 26 2. Irrigation return flows. 27 Wastewater discharges and the sludges incidental to and 3. 28 generated by treatment which are point sources subject to 29 permits granted under Section 402 of the Water Pollution 30 Control Act, as amended (P.L. 92-500), and permits granted 31 under G.S. 143-215.1 by the Environmental Management 32 Commission. However, any combustion products removed 33 from impoundments subject to permits under Section 402 of 34 the Water Pollution Control Act, as amended (P.L. 92-500), by 35 and permits granted under G.S. 143-215.1 the 36 Environmental Management Commission shall be a solid 37 waste. Any sludges that meet the criteria for hazardous waste 38 under RCRA shall also be a solid waste for the purposes of 39 this Article. 40 Oils and other liquid hydrocarbons controlled under Article 21A of c. Chapter 143 of the General Statutes. However, any oils or other 41 42 liquid hydrocarbons that meet the criteria for hazardous waste under 43 RCRA shall also be a solid waste for the purposes of this Article. Any source, special nuclear or byproduct material as defined by the 44 d. 45 Atomic Energy Act of 1954, as amended (42 U.S.C. § 2011). Mining refuse covered by the North Carolina Mining Act, G.S. 74-46 46 e. 47 through 74-68 and regulated by the North Carolina Mining and 48 Energy Commission (as defined under G.S. 143B-293.1). However, 49 any specific mining waste that meets the criteria for hazardous waste 50 under RCRA shall also be a solid waste for the purposes of this 51 Article.

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| f. | Recovered material." | |
| SECTION 8 | G.(b) G.S. 143-213(18) reads as rewritten: | |
| "(18) "Was | te" shall mean and include the following: | following with the exception |
| | lid waste as defined by G.S. 130A-290(a)(3 | • • |
| a. | "Sewage," which shall mean water-carri | |
| | transmitted, and collected from resid | ences, buildings, industrial |
| | establishments, or other places into a un | ified sewerage system or an |
| | arrangement for sewage disposal or | |
| | arrangements or systems, together with | |
| | or other water as may be present. | |
| b. | "Industrial waste" shall mean any liqu | id, solid, gaseous, or other |
| | waste substance or a combination thereout | f resulting from any process |
| | of industry, manufacture, trade or busine | ess, or from the development |
| | of any natural resource. | |
| с. | "Other waste" means sawdust, shavings | |
| | chemicals, dissolved and suspended sol | |
| | substances, except industrial waste, se | e , |
| | which may be discharged into or place | 1 5 |
| | water that drainage therefrom may reach | |
| d. | "Toxic waste" means that waste, or | |
| | including disease-causing agents, which | • • |
| | exposure, ingestion, inhalation, or assis | |
| | either directly from the environment | |
| | through food chains, will cause | |
| | abnormalities, cancer, genetic mutations | |
| | (including malfunctions in reproduction |) or physical deformities, in |
| | such organisms or their offspring." | |
| DADT IV TEMDOD | ARY MORATORIUM ON STRUCTUR | |
| | D.(a) Moratorium Established. – Notwiths | |
| | Health there is hereby established a mo | • • • |
| | a structural fill unless the fill is used under | |
| _ | or asphalt paved road, constructed under the | |
| | shed by this section shall be in effect unt | • • • |
| | Health for the management of coal combus | |
| | 9.(b) For purposes of this section, the m | - |
| | s than 5,000 cubic yards. | |
| | 9.(c) This section is effective when this a | ct becomes law and applies |
| | ustion products structural fills that have no | 11 |
| • | begin construction on or before that date. | 5 |
| 1 | C | |
| PART X. COAL COM | IBUSTION PRODUCTS IMPOUNDME | NT CLOSURE |
| SECTION 2 | 0.(a) Article 21 of Chapter 143 of the Ge | neral Statutes is amended by |
| adding a new Part to rea | d: | |
| " <u>Part</u> | 12. Coal Combustion Products Impoundme | nt Closure |
| | sure of Coal Combustion Products l | mpoundments to Protect |
| | er and Surface Water | |
| | nent shall establish the priority for closur | |
| | ombustion products impoundments. Onc | |
| | of the active and inactive ash ponds sh | |
| beginning closure activ | ities for each prioritized facility, and shall | submit a proposed schedule |

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| 1 | in accordance wi | th the t | ime frame established by the Department. | Six months (180 days) before |
| 2 | | | ctivities begin, the owner must submit five | • • • • |
| 3 | | | sure plan to the Division of Water Resour | |
| 4 | plan shall include | | | 11 |
| 5 | <u>(1)</u> | | ity and Ash Pond Description. – A descr | iption of the operation of the |
| 6 | | | ty that shall include, but not be limited to: | |
| 7 | | <u>a.</u> | Site and history of site operations; | |
| 8 | | — | operations. | <u> </u> |
| 9 | | b. | Types of flows discharging into the imp | oundment. |
| 10 | | c. | Estimated volume of material contained | |
| 11 | | <u>b.</u> <u>c.</u> d. | Analysis of the structural integrity of c | - |
| 12 | | | impoundment. | |
| 13 | | e. | Composition of liner (lined or unlined p | ond). |
| 14 | | <u>e.</u> <u>f.</u> | Summarized results of any previous | |
| 15 | | | performed at the site. | |
| 16 | <u>(2)</u> | Site I | Map. – Site maps that illustrate the followi | ng: |
| 17 | <u> </u> | <u>a.</u> | All structures associated with operation | - |
| 18 | | | power plant property boundary. | <u> </u> |
| 19 | | <u>b.</u> | All identified current and former ash | n disposal and storage areas |
| 20 | | | including structural fills. | <u>I</u> |
| 21 | | <u>c.</u> | All property boundaries and established | compliance boundaries. |
| 22 | | d. | All potential receptors (i.e. water suppl | ÷ |
| 23 | | | (streams, springs, lakes, ponds and oth | • |
| 24 | | | and wetlands) within 2,640 feet from the | |
| 25 | | <u>e.</u> | Topographic contour intervals of the si | · · · |
| 26 | | — | an accurate representation of site feat | |
| 27 | | | cases should be less than 20 feet interva | |
| 28 | | <u>f.</u> | Locations of all on-site active and | |
| 29 | | | Management permitted solid waste | facilities along with their |
| 30 | | | associated compliance boundaries and n | nonitoring wells. |
| 31 | | <u>g.</u> | All existing and proposed groundwater | r monitoring wells associated |
| 32 | | | with monitoring of the active and inactive | <u>ve ash ponds.</u> |
| 33 | | <u>h.</u> | All existing and proposed sample collect | ction locations associated with |
| 34 | | | the operation or closure of the impound | ment(s). |
| 35 | <u>(3)</u> | <u>Hydr</u> | ogeologic, Geologic, and Geotechnical In | vestigations. – The results of |
| 36 | | <u>a hyc</u> | rogeologic, geologic, and geotechnical in | vestigation of the facility, that |
| 37 | | <u>shall</u> | include, but not be limited to: | |
| 38 | | <u>a.</u> | A description of the hydrogeology and g | |
| 39 | | <u>b.</u> | A description of the stratigraphy of the | geologic units underlying the |
| 40 | | | <u>ash ponds.</u> | |
| 41 | | <u>c.</u> <u>d.</u> | The saturated hydraulic conductivity for | |
| 42 | | <u>d.</u> | The geotechnical properties for the a | ■ |
| 43 | | | uppermost identified stratigraphic unit | |
| 44 | | | including the soil classification by | |
| 45 | | | System, in-place moisture content, | |
| 46 | | | Atterberg limits, specific gravity, effec | |
| 47 | | | dry density, optimum moisture content, | |
| 48 | | <u>e.</u> | A chemical analysis of the impoundment | |
| 49 50 | | | soil. Identify constituents with concent | |
| 50 | | | of 15A NCAC 02L. 0202 Groundwate | r Quality Standards including |
| 51 | | | all laboratory results for these analyses. | |

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| | | <u>f.</u> | <u>Summ</u> | nary tables of historical reco | ords of groundwater sampling |
| | | | results | <u>s.</u> | |
| | | <u>g.</u> | <u>A map</u> | p that illustrates the potentiome | tric contours and flow directions |
| | | | for a | <u>ll identified aquifers underl</u> | ying impoundments (shallow, |
| | | | interm | nediate, and deep) and the horiz | zontal extent of areas where 15A |
| | | | NCAC | C 02L. 0202 Groundwater Qual | ity Standards are exceeded. |
| | | <u>h.</u> | Cross | -sections that illustrate the fol | llowing: vertical and horizontal |
| | | | extent | t of the ash within the impo | oundment; Stratigraphy of the |
| | | | geolog | gic units underlying the ash p | oond and the vertical extent of |
| | | | areas | where 15A NCAC 02L. 0202 | Groundwater Quality Standards |
| | | | | ceeded. | |
| | <u>(4)</u> | <u>Hydr</u> | ogeologi | ic Modeling. – The results of g | roundwater modeling of the site |
| | | that s | | ude, but not be limited to: | |
| | | <u>a.</u> | An ac | count of the design of the prop | posed pond closure method that: |
| | | | | | c conceptual model developed, |
| | | | | | sure groundwater elevations, |
| | | | - | | velocities including the effects |
| | | | | ± ± | nd includes predictions at the |
| | | | - | • | s identified in subsubdivision e. |
| | | | - | | n as exceeding 15A NCAC 2L |
| | | | | Groundwater Quality Standards | |
| | | <u>b.</u> | | | on the groundwater chemistry, |
| | | | | - | centration, mobilization and fate |
| | | | | | NCAC 2L standards before and |
| | | | | - | the effects on/from potential |
| | | | recept | | |
| | | <u>c.</u> | | · · · | rend analysis methods used to |
| | | | - | - | NCAC 02L .0202 Groundwater |
| | (5) | Class | | ty Standards and 15A NCAC 02 | |
| | <u>(5)</u> | | | | a proposed closure method. The |
| | | | | | that where groundwater quality groundwater standards will be |
| | | | - | | feasible. The selected proposed |
| | | | | | following alternatives, and shall |
| | | | | not be limited to: | onowing atternatives, and shan |
| | | <u>a.</u> | | | d identified for each ash pond. |
| | | <u>u.</u> | | re methods include: | d identified for each ash pond. |
| | | | <u>i.</u> | - | alternative entails placing an |
| | | | <u>1.</u> | | h as a composite geomembrane, |
| | | | | | oil cover over the ash pond. No |
| | | | | ash or ash-affected soil would | |
| | | | <u>ii.</u> | | ative assumes that all coal ash |
| | | | <u></u> | | pond area will be returned to a |
| | | | | non-erosive and stable conditi | - |
| | | | iii. | | native entails consolidating ash |
| | | | <u></u> | | small area as feasible within the |
| | | | | | ngineered cover system (e.g. |
| | | | | ≛ | npermeable clay, and/or a soil |
| | | | | | over the consolidated ash and |
| | | | | | aining ash pond area will be |
| | | | | returned to a non-erosive and | |
| | | | | retained to a non crosive and | statio condition. |

| iv. Other. – Must be equally or more effective at protecting water quality than the other closure options. 3 b. A description concerning any plans for beneficial reuse of the coal ash under 15A NCAC 02T.1200 (if applicable). 5 c. All engineering drawings, schematics, and specifications for the proposed closure method. If required by G.S. 89C, engineering design documents should be prepared, signed, and sealed by a professional engineer. Describe the construction quality assurance and quality control program including the responsibilities and authorities; monitoring and testing activities; sampling strategies; and reporting requirements. 11 c. A description of the provisions for disposal of wastewater through an NPDES permit or any other relevant permit. 14 e. A description of the provisions for the final disposition of the ash. If the ash is to be removed, the owner must identify the site location and the permit number for ash sent to a permitted disposal site. If the ash will be stabilized during closure and post closure and an estimate of the volume of ash left in place. 12 (6) Post-Closure Plan. – The owner shall provide post-closure plans for a minimum of 30 years. If required by GS. 89C, these plans should be signed and sealed by a professional engineer. These plans shall include, but not be limited to: 13 Notescription of the post-closure plans, including a map with the proposed location's and well construction details. 14 e. A description of the post-closure and maintenance activities. 16 < | | General Assemb | ly of N | orth Carolina | Session 2013 |
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| 3 b. A description concerning any plans for beneficial reuse of the coal ash under 15A NCAC 02T.1200 (if applicable). 5 c. All engineering drawings, schematics, and specifications for the proposed closure method. If required by GS.89C, engineering design documents should be prepared, signed, and sealed by a professional engineer. Describe the construction quality assurance and quality control program including the responsibilities and authorities; monitoring and testing activities; sampling strategies; and reporting requirements. 10 authorities; monitoring and testing activities; sampling strategies; and reporting requirements. 11 e. A description of the provisions for disposal of wastewater through an NPDES permit or any other relevant permit. 12 d. A description of the provisions for the final disposition of the ash. If the ash is to be removed, the owner must identify the site location and the permit number for ash sent to a permitted disposal site. If the ash will be stabilized during closure and post closure and an estimate of the volume of ash left in place. 20 f. A list of all permits that will need to be acquired or modified to complete closure activities. 21 (a) A description of the post-closure care and maintenance activities. 21 (b) Post-closure formwhater monitoring including parameters to be sampled and sampling schedules. 22 (c) Post-closure groundwater monitoring including parameters to be sampled and sammung schedules. | 1 | | | iv. Other. – Must be equally of | r more effective at protecting water |
| 4 ash under ISA NCAC 02T. 1200 (if applicable). 5 c. All engineering drawings, schematics, and specifications for the proposed closure method. If required by G.S. 89C, engineering design documents should be prepared, signed, and sealed by a professional engineer. Describe the construction quality assurance and quality control program including the responsibilities and authorities; monitoring and testing activities; sampling strategies; and reporting requirements. 10 authorities; monitoring and testing activities; sampling strategies; and reporting requirements. 11 c. A description of the provisions for disposal of wastewater through an NPDES permit or any other relevant permit. 12 d. A description of the provisions for the final disposition of the ash. If the ash is to be removed, the owner must identify the site location and the permit number for ash sent to a permitted disposal site. If the ash is left in place, the owner must provide a description of how the sah will be stabilized during closure and post closure and an estimate of the volume of ash left in place. 10 f. A list of all permits that will need to be acquired or modified to complete closure activities. 122 (6) Post-Closure Plan. – The owner shall provide post-closure plans should be signed and sealed by a professional engineer. These plans shall include, but not be limited to: 123 i. A description of the post-closure and maintenance activities. 124 description of the post-closure and maintenance activities. <tr< td=""><td></td><td></td><td></td><td>quality than the other closu</td><td><u>are options.</u></td></tr<> | | | | quality than the other closu | <u>are options.</u> |
| 5 c. All engineering drawings, schematics, and specifications for the proposed closure method. If required by G.S.89C, engineering design documents should be prepared, signed, and sealed by a professional engineer. Describe the construction quality assurance and quality control program including the responsibilities and authorities; monitoring and testing activities; sampling strategies; and reporting requirements. 10 authorities; monitoring and testing activities; sampling strategies; and reporting requirements. 11 e. A description of the provisions for disposal of wastewater through an NPDES permit or any other relevant permit. 12 d. A description of the provisions for the final disposition of the ash. If the ash is to be removed, the owner must identify the site location and the permit number for ash sent to a permitted disposal site. If the ash is left in place, the owner must provide a description of how the ash will be stabilized during closure and post closure and an estimate of the volume of ash left in place. 10 complete closure activities. 11 complete closure activities. 12 (a) A description of the post-closure plans for a minimum of 30 years. If required by Q.S. 89C, these plans should be signed and sealed by a professional engineer. These plans shall include, but not be limited to: 13 a. A description of the post-closure care and maintenance activities. 14 e. A description of the post-closure care and maintenance activities. 15 b. <td>3</td> <td></td> <td><u>b.</u></td> <td>A description concerning any pla</td> <td>uns for beneficial reuse of the coal</td> | 3 | | <u>b.</u> | A description concerning any pla | uns for beneficial reuse of the coal |
| 6 proposed closure method. If required by G.S. 89C, engineering design documents should be prepared, signed, and sealed by a professional engineer. Describe the construction quality assurance and quality control program including the responsibilities and authorities; monitoring and testing activities; sampling strategies; and reporting requirements. 10 authorities; monitoring and testing activities; sampling strategies; and reporting requirements. 11 reporting requirements. 12 d. A description of the provisions for disposal of wastewater through an NPDES permit or any other relevant permit. 13 NPDES permit or any other relevant permit. 14 e. A description of the provisions for the final disposition of the ash. If the ash is to be removed, the owner must identify the site location and the permit number for ash sent to a permitted disposal site. If the ash is left in place, the owner must provide a description of how the ash will be stabilized during closure and post closure and an estimate of the volume of ash left in place. 10 f. A list of all permits that will need to be acquired or modified to complete closure activities. 12 g. Post-Closure Plan. — The owner shall provide post-closure plans for a minimum of 30 years. If required by G.S. 89C, these plans should be signed and sealed by a professional engineer. These plans shall include, but not be limited to: 12 a. A description of the post-closure care and maintenance activities. 14 b. A description of a groundwater monitoring, including prameters to be | 4 | | | ash under 15A NCAC 02T .1200 | (if applicable). |
| 7 design documents should be prepared, signed, and sealed by a professional engineer. Describe the construction quality assurance and quality control program including the responsibilities and authorities; monitoring and testing activities; sampling strategies; and reporting requirements. 2 d. A description of the provisions for disposal of wastewater through an NPDES permit or any other relevant permit. 3 NPDES permit or any other relevant permit. 4 e. A description of the provisions for the final disposal site. If the ash is to be removed, the owner must identify the site location and the permit number for ash sent to a permitted disposal site. If the ash is left in place, the owner must provide a description of how the ash is left in place, the owner must provide a description of how the ash is left of all permits that will need to be acquired or modified to complete closure activities. 20 f. A list of all permits that will need to be acquired or modified to complete closure activities. 21 (6) Post-Closure Plan. – The owner shall provide post-closure plans for a minimum of 30 years. If required by G.S. 89C, these plans should be signed and sealed by a professional engineer. These plans shall include, but not be limited to: 23 a. A description of the long-term control of all leachate, affected groundwater, and stornwater. 24 a. A description of the source care and maintenance activities. 25 b. A demonstration of the long-term control of all leachate, affected groundwater and sampling schedules. 26 a. A description of the post-closu | 5 | | <u>c.</u> | All engineering drawings, scher | natics, and specifications for the |
| 8 professional engineer. Describe the construction quality assurance 9 and quality control program including the responsibilities and 10 authorities; monitoring and testing activities; sampling strategies; and 11 reporting requirements. 12 d. A description of the provisions for the final disposition of the ash. If 13 NPDES permit or any other relevant permit. 14 e. 15 the ash is to be removed, the owner must identify the site location 16 and the permit number for ash sent to a permitted disposal site. If the 17 ash is left in place, the owner must provide a description of how the 18 will be stabilized during closure and post closure and an estimate 19 of the volume of ash left in place. 20 f. A list of all permits that will need to be acquired or modified to 21 complete closure activities. 22 (6) Post-Closure Plan. – The owner shall provide post-closure plans for a 23 minimum of 30 years. If required by G.S. 89C, these plans should be signed 24 and sealed by a professional engineer. These plans shall include, but not be 25 limited to: 26 a. A description of | 6 | | | proposed closure method. If re | equired by G.S. 89C, engineering |
| 9 and quality control program including the responsibilities and authorities; monitoring and testing activities; sampling strategies; and reporting requirements. 11 reporting requirements. 12 d. A description of the provisions for disposal of wastewater through an NPDES permit or any other relevant permit. 14 e. A description of the provisions for disposal of wastewater through an NPDES permit or any other relevant permit. 14 e. A description of the provisions for disposal of wastewater through an NPDES permit or any other relevant permit. 15 the ash is to be removed, the owner must identify the site location and the permit number for ash sent to a permitted disposal site. If the ash is left in place, the owner must provide a description of how the ash will be stabilized during closure and post closure and an estimate of the volume of ash left in place. 19 f. A list of all permits that will need to be acquired or modified to complete closure activities. 20 f. A list of all permits that will need to be acquired or modified to complete closure activities. 21 f. O Post-Closure Plan The owner shall provide post-closure plans for a minimum of 30 years. If required by G.S. 89C, these plans should be signed and sealed by a professional engineer. These plans should be signed and sealed by a professional engineer. These plans should be signed and sealed by a closure and maintenance activities. 26 a. A description of the post-closure care and maintenance activities. 27 b. A demonstration of t | 7 | | | | |
| 9 and quality control program including the responsibilities and authorities; monitoring and testing activities; sampling strategies; and reporting requirements. 11 reporting requirements. 12 d. A description of the provisions for disposal of wastewater through an NPDES permit or any other relevant permit. 14 e. A description of the provisions for disposal of wastewater through an NPDES permit or any other relevant permit. 14 e. A description of the provisions for disposal of wastewater through an NPDES permit or any other relevant permit. 15 the ash is to be removed, the owner must identify the site location and the permit number for ash sent to a permitted disposal site. If the ash is left in place, the owner must provide a description of how the ash will be stabilized during closure and post closure and an estimate of the volume of ash left in place. 19 f. A list of all permits that will need to be acquired or modified to complete closure activities. 20 f. A list of all permits that will need to be acquired or modified to complete closure activities. 21 f. O Post-Closure Plan The owner shall provide post-closure plans for a minimum of 30 years. If required by G.S. 89C, these plans should be signed and sealed by a professional engineer. These plans should be signed and sealed by a professional engineer. These plans should be signed and sealed by a closure and maintenance activities. 26 a. A description of the post-closure care and maintenance activities. 27 b. A demonstration of t | 8 | | | professional engineer. Describe | the construction quality assurance |
| 11 reporting requirements. 12 d. A description of the provisions for disposal of wastewater through an NPDES permit or any other relevant permit. 13 NPDES permit or any other relevant permit. 14 e. A description of the provisions for the final disposition of the ash. If the ash is to be removed, the owner must identify the site location and the permit number for ash sent to a permitted disposal site. If the ash is left in place, the owner must provide a description of how the ash will be stabilized during closure and post closure and an estimate of the volume of ash left in place. 19 f. A list of all permits that will need to be acquired or modified to complete closure activities. 20 f. A list of all permits that will provide post-closure plans for a minimum of 30 years. If required by G.S. 89C, these plans should be signed and sealed by a professional engineer. These plans shall include, but not be limited to: 23 a. A description of the long-term control of all leachate, affected groundwater, and stormwater. 29 c. A description of the groundwater monitoring program that includes: 31 i. Post closure groundwater monitoring well installations, including a map with the proposed location/s and well construction details. 32 ii. Any additional monitoring well installations, including a map proposed to be decreased or the frequency and parameter list modified if the owner demonstrates that the reduced period or modificatio | 9 | | | and quality control program i | ncluding the responsibilities and |
| 12 d. A description of the provisions for disposal of wastewater through an NPDES permit or any other relevant permit. 13 NPDES permit or any other relevant permit. 14 e. A description of the provisions for the final disposition of the ash. If the ash is to be removed, the owner must identify the site location and the permit number for ash sent to a permitted disposal site. If the ash is to be removed, the owner must provide a description of how the ash will be stabilized during closure and post closure and an estimate of the volume of ash left in place. 18 ash will be stabilized during closure and post closure and an estimate of the volume of ash left in place. 20 f. A list of all permits that will need to be acquired or modified to complete closure activities. 21 (6) Post-Closure Plan. – The owner shall provide post-closure plans for a minimum of 30 years. If required by G.S. 89C, these plans should be signed and sealed by a professional engineer. These plans shall include, but not be limited to: 22 (a) A description of the post-closure care and maintenance activities. 23 and sealed by a professional engineer. These plans shall include, but not be limited to: 24 and sealed by a professional engineer. These plans shall include, but not be limited to: 25 b. A description of the post-closure care and maintenance activities. 26 a. A description of the post-closure care and maintenance | | | | | g activities; sampling strategies; and |
| 13 NPDES permit or any other relevant permit. 14 e. A description of the provisions for the final disposition of the ash. If 15 the ash is to be removed, the owner must identify the site location 16 ash is left in place, the owner must provide a description of how the 17 ash will be stabilized during closure and post closure and an estimate 19 of the volume of ash left in place. 10 f. A list of all permits that will need to be acquired or modified to 10 complete closure activities. 12 (6) Post-Closure Plan. – The owner shall provide post-closure plans for a 11 minimum of 30 years. If required by G.S. 89C, these plans should be signed 12 and sealed by a professional engineer. These plans shall include, but not be 11 inimieut to: 12 a. A description of the post-closure care and maintenance activities. 16 and description of a groundwater monitoring program that includes: 16 i. Post closure groundwater monitoring undult parameters to be sampled and sampling schedules. 11 ii. A description of the post-closure care period. This period may be proposed to be decreased or the frequency and parameter list modified if the owner demonstrates that the reduced period or | | | 4 | | n diamagal of wasterwater through an |
| 44 e. A description of the provisions for the final disposition of the ash. If the ash is to be removed, the owner must identify the site location and the permit number for ash sent to a permitted disposal site. If the ash is left in place, the owner must provide a description of how the ash will be stabilized during closure and post closure and an estimate of the volume of ash left in place. 70 f. A list of all permits that will need to be acquired or modified to complete closure activities. 72 (6) Post-Closure Plan. – The owner shall provide post-closure plans for a minimum of 30 years. If required by G.S. 89C, these plans should be signed and sealed by a professional engineer. These plans shall include, but not be limited to: 73 a. A description of the post-closure care and maintenance activities. 74 b. A demonstration of the long-term control of all leachate, affected groundwater, and stormwater. 79 c. A description of a groundwater monitoring program that includes: i. 76 Nay additional monitoring well installations, including a map with the proposed location's and well construction details. 71 A description of the post-closure care period. This period may be proposed to be decreased or the frequency and parameter list modified if the owner demonstrates that the reduced period or modifications are sufficient to protect human health and the environment and this demonstration is approved by the Department. The length of the post-closure care period may be increased by the Department at the end of the post-closure period if there are statis | | | <u>a.</u> | | |
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| | 17 | | | | |
| 18 professional engineer, verifying that post-closure care has been | | | | | - |
| 49 <u>completed in accordance with the post-closure plan.</u> | | | ~ - | | ± |
| 50 (7) <u>Schedules. – The owner shall provide an estimate of the milestone dates for</u> | | <u>(7)</u> | | | |
| 51 <u>all activities related to closure and post-closure.</u> | 51 | | all ac | ivities related to closure and post-cl | osure. |

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| (8) | Future Site Use The owner shall describe the anticipated future use of the |
| | site and the necessity for deed restrictions following closure. |
| <u>(9)</u> | Final Submittal Determination and Approval Within 90 days of receipt of |
| | a completed closure plan, the Department will send a letter either approving |
| | the closure plan or requesting additional information. Upon approval, the |
| | owner must begin closure activities within 30 days." |
| SEC | CTION 10.(b) Part 3 of Article 21 of Chapter 143 of the General Statutes is |
| amended by ad | ding a new section to read: |
| " <u>§ 143-215.37</u> | A. Closure of coal combustion products impoundments to render such |
| | lities exempt from the North Carolina Dam Safety Law of 1967. |
| (a) Dec | ommissioning Request Submittal Any party seeking to decommission a coa |
| combustion pro | oducts impoundment facility shall submit a document from the ownership entity |
| - | the facility be decommissioned to the Division of Energy, Mineral, and Land |
| · · · | document shall include as a minimum the following: |
| (1) | A proposed geotechnical investigation plan scope of work. Upon preliminary |
| | plan approval as described below, the owner shall proceed with necessary |
| | field work and submit a geotechnical report with site specific field data |
| | indicating that the containment dam and material impounded by the |
| | containment dam are stable, and that the impounded material is not subjec |
| | to liquid flow behavior under expected static and dynamic loading |
| | conditions. Material testing should be performed along the full extent of the |
| | containment dam and in a pattern throughout the area of impounded |
| | material. |
| <u>(2)</u> | A topographic map depicting existing conditions of the containment dam |
| | and impoundment area at two foot contour intervals or less. |
| <u>(3)</u> | If the facility contains areas capable of impounding by topography, a breach |
| | plan must be included which ensures that there shall be no place within the |
| | facility capable of impounding. The breach plan shall include at minimum |
| | proposed grading contours superimposed on the existing topographic map as |
| | well as necessary engineering calculations, construction details and |
| | construction specifications. |
| <u>(4)</u> | A permanent vegetation and stabilization or capping plan by synthetic line |
| | or other means if needed. These plans shall include at minimum, proposed |
| | grading contours superimposed on the existing topographic map where |
| | applicable as well as necessary engineering calculations, construction |
| | details, construction specifications and all details for the establishment of |
| | surface area stabilization. |
| <u>(5)</u> | A statement indicating that the impoundment facility has not received |
| | |
| | sluiced coal ash material for at least three years and there are no future plans |
| | to place coal ash in the facility by sluicing methods. |
| | to place coal ash in the facility by sluicing methods. iminary Submittal Determination and Approval. – The submitted documen |
| shall undergo a | to place coal ash in the facility by sluicing methods. iminary Submittal Determination and Approval. – The submitted documen preliminary review by the Division of Energy, Mineral, and Land Resources for |
| shall undergo a completeness a | to place coal ash in the facility by sluicing methods. iminary Submittal Determination and Approval. – The submitted documen preliminary review by the Division of Energy, Mineral, and Land Resources for nd approval of the proposed geotechnical investigation plan scope of work. |
| shall undergo a | to place coal ash in the facility by sluicing methods. iminary Submittal Determination and Approval. – The submitted documen preliminary review by the Division of Energy, Mineral, and Land Resources for nd approval of the proposed geotechnical investigation plan scope of work. The owner shall be notified by letter with results of the preliminary review |
| shall undergo a completeness a | to place coal ash in the facility by sluicing methods. iminary Submittal Determination and Approval. – The submitted documen preliminary review by the Division of Energy, Mineral, and Land Resources for nd approval of the proposed geotechnical investigation plan scope of work. The owner shall be notified by letter with results of the preliminary review including approval or revision request relative to the proposed scope of work |
| shall undergo a completeness a (1) | to place coal ash in the facility by sluicing methods. iminary Submittal Determination and Approval. – The submitted documen preliminary review by the Division of Energy, Mineral, and Land Resources for nd approval of the proposed geotechnical investigation plan scope of work. The owner shall be notified by letter with results of the preliminary review including approval or revision request relative to the proposed scope of work included in the geotechnical investigation plan. |
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| <u>shall undergo a</u> <u>completeness a</u> <u>(1)</u> | to place coal ash in the facility by sluicing methods. iminary Submittal Determination and Approval. – The submitted documen preliminary review by the Division of Energy, Mineral, and Land Resources for nd approval of the proposed geotechnical investigation plan scope of work. The owner shall be notified by letter with results of the preliminary review including approval or revision request relative to the proposed scope of work included in the geotechnical investigation plan. |

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| (c) Final Submittal Determination and Approval. – Upon receipt of the geotechnical | | | |
| report, the Divis | sion of Energy, Mineral, and Land Resources shall c | omplete the submittal | |
| review. | | - | |
| <u>(1)</u> | If it is determined that sufficient evidence has been pre | sented to clearly show | |
| | that the facility no longer functions as a dam in its | current state, a letter | |
| | decommissioning the facility shall be issued by the | Division of Energy, | |
| | Mineral, and Land Resources and the facility shall | l no longer be under | |
| | jurisdiction of the Dam Safety Law of 1967, G.S. 143- | | |
| <u>(2)</u> | If modifications such as breach construction and/or | | |
| | permanent vegetation or surface lining plan are neede | | |
| | reviewed per standard procedures for consideration of | f letter of approval to | |
| | modify and/or breach. | | |
| <u>(3)</u> | If approved, such plans shall follow standard proce | | |
| | including: construction supervision by a North | - | |
| | professional engineer, as-built submittal by a Nort | | |
| | professional engineer, and follow up final inspection b | by Division of Energy, | |
| | Mineral, and Land Resources staff. | | |
| <u>(4)</u> | Final approval shall be issued by the Division of Ener | | |
| | Resources in the form of a letter decommissioning | | |
| | facility shall no longer be under jurisdiction of the Dar | n Safety Law of 1967, | |
| | <u>G.S. 143-215.23.</u> " | | |
| DADT VI CIC | STIDE DI ANS SCHEDITI E | | |
| PART XI. CLOSURE PLANS SCHEDULE SECTION 11. Notwithstanding G.S. 143-215.74Q and G.S. 143-215.37A as | | | |
| enacted by Sections 10.(a) and 10.(b) of this act: | | | |
| (a) | The closure plan for Riverbend shall be submitted to the | ne Department no later | |
| | er the Act is ratified and shall include detailed provision | 1 | |
| the impoundments will be moved to a lined structural fill, a lined landfill, or an alternative | | | |
| disposition approved by Department. | | | |
| (b) The closure plan for Asheville shall be submitted to the Department no later | | | |
| than 60 days after the Act is ratified and include detailed provisions that ensure all ash in the | | | |
| impoundments will be moved to a lined structural fill, a lined landfill, or an alternative | | | |
| disposition approved by the Department. | | | |
| (c) | (c) The closure plan for Dan River shall be submitted to the Department no later | | |
| than 90 days after the Act is ratified and include detailed provisions that ensure all ash in the | | | |
| impoundments will be moved to a lined structural fill, a lined landfill, or an alternative | | | |
| disposition approved by the Department. | | | |
| (d) | The closure plan for Sutton shall be submitted to the | - | |
| • | er the Act is ratified, and include detailed provisions that | | |
| - | impoundments will be moved to a lined structural fill, a lined landfill, or an alternative | | |
| disposition appro | oved by Department. | | |
| | | | |
| | PROPRIATION | | |
| | FION 12. There is appropriated from the General Func | | |
| Environment and Natural Resources the sum of one million four hundred thousand dollars | | | |
| (\$1,400,000) for the 2013-2014 Fiscal Year to establish nineteen permanent positions and | | | |
| associated operat | ting costs to implement this act." | | |
| рартуні гі | FFECTIVE DATE | | |
| | FION 13. This act is effective when it becomes law. | | |
| BEC. | | | |