GENERAL ASSEMBLY OF NORTH CAROLINA SESSION 2013

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HOUSE BILL 1228*

Short Title:	Governor's Coal Ash Action Plan.	(Public)
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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	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.
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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.			