

ROXBORO POWER STATION - Semora, NC

	Ash Pond	FGD Settling Pond	FGD Flush Pond
INFORMATION REQUEST	RESPONSE	RESPONSE	RESPONSE
1. Relative to the National Inventory of Dams criteria for High, Significant, Low, or Less- than-Low Hazard Potential, please provide the potential hazard rating for each management unit and indicate who established the rating, what the basis of the rating is, and what federal or state agency regulates the unit(s). If the unit(s) does not have a rating, please note that fact.	Hazard Classification – Significant. A professional engineering firm established the rating based on USCOE guidelines and NCDENR Regulations. The unit is under the purview of the North Carolina Utilities Commission.	Dams criteria we rate the unit	Using the National Inventory of Dams criteria we rate the unit Significant.
2. What year was each management unit commissioned and expanded?	The original pond was commissioned in 1973. The dam was raised in 1986.	In 2008 a FGD settling pond was constructed within the boundary of the ash pond.	In 2008 a FGD flush pond was constructed within the boundary of the ash pond.

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 3. What materials are temporarily or permanently contained in the unit? Use the following categories to respond to this question: (1) fly ash; (2) bottom ash; (3) boiler slag; (4) flue gas emission control 	The unit contains fly ash, bottom ash, boiler slag, Other- ash sluice water, storm water, categorical low volume.	The unit contains Flue Gas Desulfurization residuals/wastewater.	The unit contains Flue Gas Desulfurization residuals/wastewater from backflushing the wastewater treatment unit.

The unit was designed by a professional engineer. The construction was under the supervision of a professional engineer. Some inspections are under the supervision of a professional engineer, some are not. See response to item 5. below.

residuals; (5) other. If the

management unit contains more than one type of material, please identify all that apply. Also, if you identify "other," please specify the other types of materials that are temporarily or permanently contained in the unit(s).

4. Was the management unit(s)

management unit(s) under the

supervision of a Professional

Engineer? Is inspection and

Engineer?

monitoring of the safety of the

waste management unit(s) under

the supervision of a Professional

designed by a Professional

Engineer? Is or was the

construction of the waste

The unit was designed by a professional engineer. The construction was under the supervision of a professional engineer. Current inspections are under the supervision of a professional engineer. The berms are inspected five to seven days per week. Attached is an example inspection form.

The unit was designed by a professional engineer. The construction was under the supervision of a professional engineer. The unit is currently deconstructed and will undergo a rebuild in near future.

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5. When did the company last assess or evaluate the safety (i.e., structural integrity) of the management unit(s)? Briefly describe the credentials of those conducting the structural integrity assessments/evaluations. Identify actions taken or planned by facility personnel as a result of these assessments or evaluations. If corrective actions were taken. briefly describe the credentials of those performing the corrective actions, whether they were company employees or contractors. If the company plans an assessment or evaluation in the future, when is it expected to occur?

RESPONSE Monthly inspections that include visual inspections and data gathering to detect any problems at an early stage of development are conducted by plant personnel. Attached is a copy of the most recent inspection report available. Actions or planned: None taken determined that the pond should different liner. These activities or planned.

RESPONSE The company last conducted a comprehensive inspection in 2008. The engineering firms that conducted the inspections have expertise in geotechnical and civil engineering. Actions taken: lower the operating level of the pond. It was further be taken off line and possibly rebuilt using a different lining. A new pond located adjacent to the existing pond is under design.

RESPONSE

The company last conducted a comprehensive inspection in 2008. The engineering firms that conducted the inspections have expertise in geotechnical and civil engineering. Actions taken: take the unit off line, deconstruct it and reconstruct with are underway.

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RESPONSE

Annual inspections are

conducted by a third-party

contractor. The engineering

inspections have expertise in

engineering. Attached is the most recent annual inspection report which is also the five year

professional engineering

firms that conduct the

geotechnical and civil

report.

RESPONSE

This unit will be incorporated into the company's procedure for a weekly/monthly, annual, and five year inspection program. This unit will be incorporated into the company's procedure for a weekly/monthly, annual, and five year inspection program.

RESPONSE

Progress Energy Kelluoro Power Station

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Comprehensive <u>five-year</u> inspections are conducted by a third-party profe engineering contractor. The engineering firms that conduct the inspection expertise in geotechnical and civil engineering. Attached is the most rece comprehensive inspection dated 2008. Actions taken or planned: EMBA STRUCTURES - Drain outlet channels at the toe of the dam will require maintenance to clear vegetation and sediment. This should be done every Continue vegetation control program. Continue observation at east end o seepage has been observed on occasion. Place rip rap where needed to re	ns have ent NKMENT regular y two years. of dam where	This unit will be incorporated into the company's procedure for a weekly/monthly, annual, and five year inspection program.	This unit will be incorporated into the company's procedure for a weekly/monthly, annual, and five year inspection program.

regulatory official last inspect orCommevaluate the safety (structuralinspectintegrity) of the managementaware ofunit(s)? If you are aware of ainspectplanned state or federal inspectionofficialor evaluation in the future, when isreport sit expected to occur? Pleaseitem 5identify the Federal or Stateofficialregulatory agency or departmentwhich conducted or is planning the		FGD Settling Pond	FGD Flush Pond
regulatory official last inspect orCommevaluate the safety (structuralinspectintegrity) of the managementaware ofunit(s)? If you are aware of ainspectplanned state or federal inspectionofficialor evaluation in the future, when isreport sit expected to occur? Pleaseitem 5identify the Federal or Stateofficialregulatory agency or departmentwhich conducted or is planning the	RESPONSE	RESPONSE	RESPONSE
inspection or evaluation. Please provide a copy of the most recent official inspection report or evaluation.	orth Carolina Utilities ission requires a five year tion report. We are not of any planned tions by state or federal ls. Refer to the five year submitted in response to above for the most recent l report.	In 2008 a state dam safety inspector visited the site and concurred with the company findings. The company is not aware of any planned state or federal inspections in the future. A copy of the state's inspection report is attached.	In 2008 a state dam safety inspector visited the site and concurred with the company findings. The company is not aware of any planned state or federal inspections in the future. A copy of the state's inspection report is attached.
or inspections conducted by Stateconductedor Federal regulatory officialsofficialconducted within the past yearstructuuncovered a safety issue(s) with thevisualmanagement unit(s), and, if so,inspect	have been no inspections eted by state or federal I that evaluated the ral integrity other than a observation by NPDES tors. There have been no -up actions.	Refer to item five and six above.	Refer to item five and six above.

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8. What is the surface area (acres) and total storage capacity of each of the management units? What is the volume of materials currently stored in each of the management unit(s). Please provide the date that the volume measurement was taken. Please provide the maximum height of the management unit(s). The basis for determining maximum height is explained later in this Enclosure.	The surface area is approximately 240 acres. The total storage capacity is approximately 4,800 acre-feet. The volume of material currently stored is approximately 4,526 acre-feet and was estimated in March 2007. The maximum height is 70 feet.	The surface area is approximately 16.6 acres. The total storage capacity is approximately 419.5 acre-feet. The volume of material (wastewater) currently stored is approximately 103 acre-feet.and was determined on March 19, 2009 The maximum height is 32 feet.	
9. Please provide a brief history of known spills or unpermitted releases from the unit within the last ten years, whether or not these were reported to State or federal regulatory agencies. For purposes of this question, please include only releases to surface water or to the land (do not include releases to groundwater).	There have been no known spills or releases	2008 -Wastewater from the unit was diverted to the adjacent ash pond for a two week period in order to lower the operating level. This activity was reported to the state regulatory agency.	released to adjacent ash pond. Incident was reported to state

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10. Please identify all current legal	The Roxboro Power Station	The Roxboro Power Station	The Roxboro Power Station
owner(s) and operator(s) at the	consists of four generation units.	consists of four generation	consists of four generation units.
facility.	Units 1, 2, & 3 are owned by	units. Units 1, 2, & 3 are owned	Units 1, 2, & 3 are owned by
	Carolina Power & Light	by Carolina Power & Light	Carolina Power & Light
	Company d/b/a Progress Energy	Company d/b/a Progress Energy	Company d/b/a Progress Energy
	Carolinas, Inc. Unit 4 has	Carolinas, Inc. Unit 4 has	Carolinas, Inc. Unit 4 has
	12.94% ownership by the North	12.94% ownership by the North	12.94% ownership by the North
	Carolina Eastern Municipal	Carolina Eastern Municipal	Carolina Eastern Municipal
	Power Agency (NCEMPA).	Power Agency (NCEMPA).	Power Agency (NCEMPA).
	Roxboro Common has 3.77%	Roxboro Common has 3.77%	Roxboro Common has 3.77%
	ownership by the NCEMPA.	ownership by the NCEMPA.	ownership by the NCEMPA.