

US EPA ARCHIVE DOCUMENT

H. B. ROBINSON POWER STATION - Hartsville, SC

Pond

INFORMATION REQUEST

RESPONSE

1. Relative to the National Inventory of Dams criteria for High, Significant, Low, or Less-than-Low, 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 – Low. A professional engineering firm established the rating based on USCOE guidelines. The South Carolina Department of Health and Environmental Control has purview. Since the unit is rated as a low hazard the SCDHEC does not inspect nor requires the submittal of an inspection report.

2. What year was each management unit commissioned and expanded?

The original pond was commissioned circa 1960. Dikes increased in height in 1982 and 2002

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 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).

The unit contains fly ash, bottom ash, boiler slag, Other- chemical metal cleaning, ash sluice water, storm water, categorical low volume.

4. Was the management unit(s) designed by a Professional Engineer? Is or was the construction of the waste management unit(s) under the supervision of a Professional Engineer? Is inspection and monitoring of the safety of the waste management unit(s) under the supervision of a Professional Engineer?

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.

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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

Bi-weekly visual inspections are conducted by plant personnel to detect any problems at an early stage of development. Attached is a copy of the most recent inspection report available. Actions taken or planned: None taken or planned.

Annual inspections are conducted by a third-party professional engineering contractor. The engineering firms that conduct the inspections have expertise in geotechnical and civil engineering. Attached is the most recent annual inspection report. Actions taken or planned: Continue vegetation control program. Continue to look for animal burrows and erosion rills and fill holes as needed. The annual inspection frequency should be increased to monthly if water levels rise to a point that places water against the dike. These inspections should look for any cracks, slumps or new seepage. Other similar inspection recommendations are presented in the report.

Comprehensive five-year inspections are conducted by a third-party professional engineering contractor. The engineering firms that conduct the inspections have expertise in geotechnical and civil engineering. Attached is the most recent comprehensive inspection dated 2005. Actions taken or planned: Similar to those presented in the annual report.

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6. When did a State or a Federal regulatory official last inspect or evaluate the safety (structural integrity) of the management unit(s)? If you are aware of a planned state or federal inspection or evaluation in the future, when is it expected to occur? Please identify the Federal or State regulatory agency or department which conducted or is planning the inspection or evaluation. Please provide a copy of the most recent official inspection report or evaluation.

The South Carolina Department of Health and Environmental Control has purview. Since the unit is rated as a low hazard the SCDHEC does not inspect nor requires the submittal of an inspection report.

7. Have assessments or evaluations, or inspections conducted by State or Federal regulatory officials conducted within the past year uncovered a safety issue(s) with the management unit(s), and, if so, describe the actions that have been or are being taken to deal with the issue or issues. Please provide any documentation that you have for these actions.

There have been no inspections conducted by state or federal official that evaluated the structural integrity other than a visual observation by a NPDES inspector. There have been no follow-up actions.

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 70 acres. The current total storage capacity is approximately 410 acre-feet. The volume of material currently stored is estimated to be approximately 389 acre-feet and was determined in March 2009 based on 2006 data. The maximum height is 20 feet.

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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

10. Please identify all current legal owner(s) and operator(s) at the facility.

Carolina Power& Light Company d/b/a Progress Energy Carolinas, Inc.