

North Carolina Department of Environment and Natural Resources

Pat McCrory Governor John E. Skvarla, I!I Secretary

NOTICE OF DEFICIENCY

June 13, 2014

<u>CERTIFIED MAIL</u> RETURN RECEIPT REQUESTED

Duke Energy Corporation Attention: Mr. Sean DeNeale, Engineer II Environmental Services Post Office Box 1006 Mail Code EC 13K Charlotte, North Carolina 28201-1006

7011 0570 0000 0154 7333

Duke Energy Corporation Attention: Mr. John Elnitsky, Vice President Project Management and Construction Post Office Box 1007 Mail Code ST-28U Charlotte, North Carolina 28201-1007 7011 1570 0000 0154 7340

RE:

Allen Retired Ash Basin Dam GASTO-016 – High Hazard Potential Catawba River Basin Gaston County

Dear Mr. DeNeale and Mr. Elnitsky:

The "Dam Safety Law of 1967," as amended, provides for the certification and inspection of dams in the interest of public health, safety, and welfare, in order to reduce the risk of failure of such dams; to prevent injuries to persons, damage to property; and to insure the maintenance of stream flows.

Our records indicate that you are the owner/and or responsible for the referenced dam, which is located off Plant Allen Road in Gaston County. On May 6, 2014, this Office received a digital copy of an internal inspection of the spillway system for the referenced dam. This submittal was in response to an information request issued by this Division on March 5, 2014, in which this Division requested that Duke Energy camera inspect all facilities that have decant structures with corrugated metal pipe (CMP) and concrete components. The decant structure for this dam is comprised of a concrete riser with CMP components and a concrete barrel.

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A preliminary review of the camera inspection video of the decant structure and report has been performed by personnel of the Land Quality Section for the referenced dam. The video documented an infiltration gusher in the riser. Additionally, cracks, spalling and infiltration stains were observed.

The condition of the decant structure appears serious enough to justify further engineering study in order to determine appropriate remedial measures. Your dam is categorized as a "High Hazard" dam. In the event of dam failure, significant environmental damage to Lake Wylie could occur due to release of coal ash stored behind the dam.

In order to ensure the safety of this dam, you are directed to retain the services of a registered professional engineer competent in the area of dam safety to review the internal video and provide a professional assessment of the decant structure with regard to overall structural integrity and recommendations for repair. Plans and specifications for repair based on the results of the study must be filed with the Division of Energy, Mineral and Land Resources for approval pursuant to the North Carolina Administrative Code, Title 15A, Subchapter 2D – Dam Safety (15A NCAC 2K). Please note any excavations in the dam or major repair work to this dam must be approved by this Division before any work is done. Additionally, please note that this dam may not be breached, meaning the dam may not be drained by cutting a notch in the dam, without prior engineered breach plans being submitted to and approved by this Division.

Please submit a written response as quickly as possible, but no later than ten (10) days following receipt of this Notice to advise us of your intended actions in this matter. This response must include a schedule for repair plan development and implementation. If positive action is not taken within thirty (30) days or before July 17, 2014, whichever term is longer, we shall present the case information for appropriate enforcement action in accordance with North Carolina General Statute 143-215.36. Enforcement action could include a civil penalty of up to \$500.00 per day of violation, and/or issuance of a Dam Safety Order requiring the repair or removal of this dam, and/or injunctive relief to gain compliance.

Please notify this Office in writing if you wish to assert that you have no ownership or are otherwise not responsible for maintenance or repairs to the subject dam. If you have an emergency situation during non-office hours, you should notify 911 and the State Emergency Operations center at 1-(800) 858-0368. They will notify the appropriate personnel in this office of the situation.

It is recommended that you or your engineer direct questions related to repair applications or the dam plan review process to our dam safety staff at (919) 707-9220. All plans, specifications design data, and calculations must be submitted to the State Dam Safety Engineer. If you have any questions regarding this letter, please contact me at (704) 663-1699. Your cooperation and consideration in maintaining a safe dam is appreciated.

Sincerely,

ec:

Zahid S. Khan, CPM, CPESC, CPSWQ

Regional Engineer Land Quality Section

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Steven M. McEvoy, PE, State Dam Safety Engineer

cc: Water Quality Regional Operations Section