



North Carolina Department of Environment and Natural Resources
Division of Energy, Mineral, and Land Resources

Tracy E. Davis, PE, CPM
Director

Pat McCrory, Governor
John E. Skvarla, III, Secretary

Certificate of Approval

December 17, 2013

Permit No.	Scan Date	DIN
3612-INDUS-2008	December 19, 2013	20307

CERTIFIED MAIL
RETURN RECEIPT

RECEIVED
December 19, 2013
Solid Waste Section
Asheville Regional Office

Duke Energy Corporation
Attn: Mr. B. Henry Taylor, PE, Senior Engineer
Procurement, Construction and EH&S – Environmental Projects
EC11Y P.O. Box 1006
Charlotte, North Carolina 28201-1006

RE: Allen Retired Ash Basin Dam
Approval to Modify – Addendum No. 1
Gaston County
State Dam ID: GASTO-016

Dear Mr. Taylor:

This letter is in response to your submittal received on December 16, 2013, of an engineering analysis requesting a variance to stipulation 3.a. of the original Certificate of Approval to Modify dated November 30, 2010. The subject dam is of high hazard classification. This submittal was prepared under the supervision of Mr. Jason S. Reeves, PE, Engineer of Record for the approved modification work. The variance request concerns the required moisture content of compacted ash fill material, and constitutes a design change to the plans, specifications, and design data approved by Certificate of Approval to Modify dated November 30, 2010, in compliance with the Dam Safety Law of 1967.

This letter constitutes approval of the proposed design changes described by the submittal received on December 16, 2013. Stipulation 3.a. is hereby amended to read as follows:

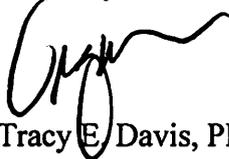
“Waste fill shall be compacted to a minimum of 95 percent of its standard Proctor (ASTM D698) maximum dry density. Compacted moisture content shall be within 5 percent of the optimum moisture content. If during placement of granular waste fill the compaction criterion is achieved, but the moisture content criterion cannot be obtained due to the free-draining nature of the materials such that the material is dryer than 5

percent of optimum moisture content, the Engineer of Record shall be contacted for approval prior to the placement of the next successive lift.”

This approval addendum is subject to all other stipulations of the November 30, 2010, Certificate of Approval to Modify. These changes shall be depicted in the record drawings and specifications.

Mr. Zahid Khan, Regional Engineer, Land Quality Section, 610 East Center Avenue, Mooresville, North Carolina 28115, (704) 663-1699 or a member of the Dam Safety Program staff in the Raleigh Central Office at telephone number (919) 707-9220.

Sincerely,



Tracy E. Davis, PE, CPM
Division Director

TED/smm

Enclosures

cc: Mr. Jason S. Reeves, PE
Mr. Zahid Khan, Land Quality Regional Engineer

File name: GASTO-016_20131216_COAM_Add-1_Allen Retired Ash Basin