



Duke Energy
526 South Church Street
Charlotte, NC 28202

Mailing Address:
EC13K / P.O. Box 1006
Charlotte, NC 28201-1006

RECEIVED/NCDENR/DWR
DEC 21 2016
WQROS
MOORESVILLE REGIONAL OFFICE

20 December 2016

Dr. Sergei Chernikov
North Carolina Division of Water Resources
1617 Mail Service Center
Raleigh, NC 27699-1617

Subject: Potential New Discharge at Allen Steam Station

Dear Dr. Chernikov,

At Allen Steam Station on 15 December 2016, Duke Energy personnel observed minor drainage (flow was approximately 0.3 L/min) from a 24-inch corrugated metal pipe (CMP) along the Catawba River bank. The coordinates of the end of the CMP are approximately 35° 11' 20.6" N, 81° 0' 27.55" W. After further investigation, we have identified CMP as the abandoned discharge from the Retired Ash Basin's original riser. This riser was plugged with concrete in 1966 when the basin was expanded and a new riser and discharge structure installed. Since then, the basin has been dewatered and closed, and a double-lined landfill with leachate collection has been constructed over top of it.

Since discovering the drainage, we had the CMP inspected by video, but the camera was only able to travel about ten feet from the opening because the CMP was clogged with debris. Our sample results have confirmed that the water draining from the pipe meets all surface water quality standards. The water contains elevated levels of boron consistent with groundwater samples at Allen, though there is no state surface water standard for boron. Based on the sampling results and the history of the Retired Ash Basin, we have concluded that the water is groundwater infiltrating the pipe. Currently our plan is to grout the end of this pipe to eliminate the release of this groundwater.

On 16 December 2016, we discussed this matter with Jeff Poupart of the North Carolina Division of Water Resources, and we are following the direction given.

Should you have any questions regarding this submittal or require additional information, please contact Ross Hartfield at 980-373-6583 or at ross.hartfield@duke-energy.com.

Sincerely,

Anne Pifer
EHS-CCP Manager, Permitting and Compliance

✓ cc: Corey Basinger, Mooresville Regional Office, NCDEQ