

Southern Nuclear
Operating Company, Inc.
42 Inverness Center Parkway
Birmingham, AL 35242



Log: ND-14-0204

JAN 31 2014

FEDERAL EXPRESS

RECEIVED FEB 3 - 2014

Plant Vogtle Units 3&4
Surface Water Withdrawal Permit #017-0191-11

Mr. Lebone Moeti
Georgia Department of Natural Resources
Environmental Protection Division
Watershed Protection Branch
4220 International Parkway
Suite 101
Atlanta, Georgia 30354

Dear Mr Moeti:

Please find enclosed the signed draft Surface Water Withdrawal Permit, No. 017-0191-11 for Plant Vogtle Units 3 & 4.

As we discussed, we would like to meet with you and your staff in the next two weeks to discuss the best options available for successfully implementing the conditions outline in the permit.

Please contact Matt Montz at (205) 992-5629 to schedule a meeting and if you have any questions.

Again, thank you for your assistance and we look forward to talking with you soon.

Sincerely,

A handwritten signature in black ink, appearing to read "D. L. Fulton".

D. L. Fulton
Nuclear Development Environmental Manager

DLF/MTM

Enclosure

Georgia Department of Natural Resources

Environmental Protection Division • Watershed Protection Branch

4220 International Parkway • Suite 101 • Atlanta • Georgia 30354

(404) 675-6232; Fax (404) 675-6247

Judson H. Turner, Director

January 23, 2014

Mr. D.L. Fulton
Nuclear Development Environmental Manager
Southern Nuclear Operating Company, Inc.
42 Inverness Center Parkway
Birmingham, Alabama 35242



RE: Surface Water Withdrawal Permit Application New
Permit # 017-0191-11
Source: Savannah River
Current Permit Limits: 74.0 mgd max 24-hr day/ 62.0 mgd monthly average

Dear Mr. Fulton:

The Water Withdrawal Permitting Program of the Environmental Protection Division (EPD) has enclosed the above draft Surface Water Withdrawal Permit. The EPD is prepared to recommend draft Permit to the Director for approval after the 30-day public notice period.

If you agree with the conditions of the Draft Permit, please complete and sign at the appropriate place and return this letter to EPD before January 30, 2014. Otherwise, contact this office.

If you have any questions, please contact Mr. Phillip White at 404-675-1742.

Sincerely,

Lebone Moeti, Acting Manager
Engineering & Permitting - Surface Water Unit

Attachment

I agree with the terms contained in this letter and the attached draft Surface Water Withdrawal Permit No. 017-0191-11.

Name (Signed)

1-31-14

Date

Dale L. Fulton

Name (Typed or Printed)

Nuclear Development Environmental Manager

Title

ENVIRONMENTAL PROTECTION DIVISION
DEPARTMENT OF NATURAL RESOURCES
STATE OF GEORGIA
PERMIT TO WITHDRAW, DIVERT OR IMPOUND SURFACE WATER

PERMIT HOLDER'S NAME Southern Nuclear Operating Co.--Vogtle Electric Generating Plant PERMIT NUMBER 017-0191-11

PERMIT HOLDER'S ADDRESS 40 Inverness Center Parkway Bin B010, Birmingham, AL 35242

In accordance with the provisions of the Georgia Water Quality Control Act, (O.C.G.A § 12-5-20 et seq.) as amended, and the Rules and Regulations for Water Quality Control, Chapter 391-3-6, promulgated pursuant thereto, this permit is issued to withdraw surface water from the (source) Savannah River for the purposes of cooling and in-plant use.

The permit holder must comply with the following limitations:

- (1) Maximum 24 hour: Withdrawal 74.0 MGD; Impoundment ___ MGD; Diversion _____ MGD
- (2) Not to exceed a monthly average of 62.0 MGD

This permit is conditioned upon the permit holder complying with the following:

This permit contains general and special conditions that are based on the unique hydrologic, environmental, water uses, and related hydraulic and environmental assessments and regulatory conditions in the Savannah River Basin. The conditions are limited to the unique circumstances of the Savannah River Basin and may not be required in other surface water withdrawal permits.

STANDARD CONDITIONS

- (1) The provisions of the Water Quality Control Act, as amended, or any of the Rules and Regulations promulgated thereto;
- (2) This permit shall not be transferred except with the approval of the Division;
- (3) The use of surface water is limited to the quantities and purposes as specified herein;
- (4) The permit holder shall submit annually to the Division, within 30 days of completion of the calendar year, a report listing for each month of the previous year:
 - a. The gallons per day withdrawn, based on an average of the daily withdrawals for the month;
 - b. The maximum 24 hour withdrawal;
- (5) And the attached special conditions which are hereby made a part of this permit.

In accordance with the application dated July 29, 2011 and in conformity with the statements and supporting data entered therein or attached thereto, all of which are filed with the Environmental Protection Division of the Department of Natural Resources and are hereby made part of this Permit.

This Permit is effective from the date written below and is subject to revocation pursuant to the Georgia Water Quality Control Act, as amended, O.C.G.A § 12-5-31 (k).

Absent prior revocation in accordance with the above language, this Permit shall expire on the Xst day of XXXX XXX.

DIRECTOR'S SIGNATURE

DATE:
XX XX, 2014

Director
Environmental Protection Division
Department of Natural Resources

SPECIAL CONDITIONS

1. The permit holder's intake is located on the Savannah River about a mile downstream of Hancock Landing Road in Burke County. The plant uses surface water from the Savannah River primarily as makeup water for the main circulating water system to the natural draft cooling towers for two nuclear reactors (Units 3 and 4). All water withdrawn must be calculated leaving the intake structure.
2. The amount of water withdrawn, less evaporation and drift losses, must be returned to the Savannah River on a daily basis via cooling tower blow down and the plant liquid radwaste discharge dilution water system. Water that is returned to the river from the system is done so through the National Pollution Discharge Elimination System (NPDES) release points in accordance with the NPDES permit.
3. To address simulation results from hydrodynamic modeling of streamflows conducted by EPD, which suggest the injection of at least 1,000 lbs of oxygen per day will offset any actual or theoretical dissolved oxygen conditions associated with this Permit, the permittee agrees to cause the construction and installation of an oxygen injection system, such as a Speece Cone, capable of injecting up to 4,000 lbs of oxygen per day in the area of river mile 14 in the Savannah Harbor. To conservatively address dissolved oxygen conditions in the Savannah Harbor, the permittee shall cause the operation of the oxygen injection system and inject 4,000 lbs of oxygen per day from April 15 through November 15 of each year. This special condition is included in this Permit to address potential or theoretical hydraulic conditions in the Savannah Harbor and other unique conditions in the area of the Harbor, including the absence of flood control infrastructure, the absence of reservoirs downstream of the withdrawal, and the activities associated with the Savannah Harbor Expansion Project.
4. The permittee may seek the modification of any condition in this Permit, including operation of the oxygen injection system, based on environmental assessments, technological improvements, hydrodynamic evaluations, or other information available on modeled conditions or actual conditions in the Savannah River or Savannah Harbor.
5. In addition to Standard Condition number (4), the permit holder must submit to the Environmental Protection Division (EPD), by the 10th day of every calendar month, a monthly Surface Water Withdrawal Report for all daily raw water withdrawals for the previous month.
6. The permit holder must abide by applicable water conservation requirements.
7. The permit holder must abide by applicable drought response requirements.
8. The permit holder's surface water withdrawal permit and any future modifications or re-issuance of such, is conditional upon implementation of applicable Water Conservation Plan. The permit holder must demonstrate an effort to increase water use efficiency.
9. The permit holder will cooperate with the Environmental Protection Division (EPD) in the coordination of its water withdrawal requirements associated with this Permit and the following Groundwater Use Permits:

* 017-0003

* 017-0006

PERMIT MODIFICATION

The permit holder may seek modification of any of the terms of an unexpired permit upon written request to the Director.