

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



Energy to Serve Your WorldSM

File: E.03.34
Log: EV-06-0053

January 11, 2006

Vogtle Electric Generating Plant
Ground Water Use Permit No. 017-0003
Semi-Annual Report

Mr. Bill Frechette
Georgia Environmental Protection Division
Water Withdrawal Permitting Program
Groundwater Permitting Unit
4220 International Parkway, Suite 101
Atlanta, GA 30354

Dear Mr. Frechette:

In accordance with standard condition #3 of the Vogtle Electric Generating Plant Ground Water Use Permit (No. 017-0003) and Rule 391-3-2-.08, enclosed is the semi-annual Ground Water Use Report for the second half of 2005, and the annual measured value for specific conductance.

If you have any questions, please contact Jessica Joyner at (205) 992-7693.

Sincerely,

A handwritten signature in cursive script, appearing to read "Jessica Joyner".

Mike Godfrey
Environmental Affairs Manager

JMG/JAJ:ahl

Vogle Electric Generating Plant – Permit No. 017-0003

Annual Specific Conductance

Obtained from: Make-up well #1
Obtained on: 12/09/05
Value ($\mu\text{mhos/cm}$): 173.4
Temperature: 25°C

Obtained from: Recreation Center well
Obtained on: 12/09/05
Value ($\mu\text{mhos/cm}$): 236
Temperature: 25°C

Georgia Environmental Protection

Department of Natural Resources

Groundwater Use Report

This form shall be submitted to the Division twice each year, within the reporting period specified on the Groundwater Withdrawal Permit under Standard Condition No. 3.

(Print or type ALL information)

Permittee Information				
Contact Person: Mike Godfrey		Phone: (205) 992-6387		Email: JGODFREY@southernco.com
Company / Permittee: Southern Nuclear operating Company / Vogtle electric Generating Plant				
Address: P.O. Box 1295, Birmingham, Alabama 35201				
(No. and Street)		(City)	(State)	(Zip)
GW Withdrawal Permit No.: 017 - 0003		For six (6) month period from July 2005 thru December 2005		
County where well(s) is located: <u>Burke County, GA</u>				
This report is on the <u>Cretaceous Sand</u> aquifer(s) used by well(s) numbered <u>MU-1, MU-2A, TW-1, SW-5, SB, Rec. CW-3, & IW-4</u>				
Month/Year	Amount of water pumped from aquifer(s) each MONTH (in gallons)		Method used to determine pumpage	
	System Total from ALL wells	Monthly Average (Total/Days in Month)		
July/2005	24146700 gal	778900 gal	<input checked="" type="checkbox"/> Flow meter	
August/2005	24861100 gal	802000 gal	<input type="checkbox"/> Other (specify below)	
September/2005	28310800 gal	943700 gal		
October/2005	30421000 gal	981300 gal		
November/2005	23340100 gal	778000 gal		
December/2005	26566000 gal	857000 gal	Average hours pumped per day <u>2.2</u>	
Six Month - Grand Total	157645700 gal			
Static water level (SWL)*** 46.05 ft.		Elevation 154.48 ft.	Well no. MU-1	Date measured 12-08-05
Pumping water level (PWL)*** 49.20 ft.		Elevation 151.33 ft.	Well no. MU-1	Date measured 12-08-05
(Use additional sheet if necessary)				
Number of hrs shutdown for SWL measurement <u>0.25</u> . Number of continuous hrs pumped for PWL measurement <u>2.08</u> .				
Method of measurement: <input type="checkbox"/> Air line <input checked="" type="checkbox"/> Probe <input type="checkbox"/> Tape <input type="checkbox"/> Other (specify) _____				
Measurement from: <input checked="" type="checkbox"/> Top of casing <input type="checkbox"/> Ground <input type="checkbox"/> Other (specify) _____				
*** Obtain and submit appropriate sets of water level measurements as indicated below:				
From 1-5 wells - a set from ONLY 1 WELL		Take readings from the highest yield well(s) using the same well(s) each time. For additional wells, follow this format.		
From 6-10 wells - a set from ONLY 2 WELL				
From 11-15 wells - a set from ONLY 3 WELL				
From 16-20 wells - a set from ONLY 4 WELL				
And such other pertinent information submitted by the applicant or required by the Division.				

I certify that the above information is true to the best of my knowledge.

Signed CS

Clifton L. Buck, Chemistry Manager
Title

Date 1/6/06

Return Report To:

Georgia Environmental Protection Division
Water Withdrawal Permitting Program
Groundwater Permitting Section
1520 International Parkway, Suite 200
Atlanta, Georgia 30329

Georgia Environmental Protection

Department of Natural Resources

Groundwater Use Report

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(Print or type ALL Information)

Permittee Information

Contact Person: Mike Godfrey	Phone: (205) 992-6387	Email: JGODFREY@southernco.com
Company / Permittee: Southern Nuclear operating Company / Vogtle electric Generating Plant		
Address: P.O. Box 1295, Birmingham, Alabama 35201		
(No. and Street)	(City)	(State) (Zip)
GW Withdrawal Permit No.: 017 - 0003	For six (6) month period from July 2005 thru December 2005	
County where well(s) is located: Burke County, GA		
This report is on the <u>Cretaceous Sand</u> aquifer(s) used by well(s) numbered <u>MU-1, MU-2A, TW-1, SW-5, SB, Rec, CW-3, & IW-4</u>		

Month/Year	Amount of water pumped from aquifer(s) each MONTH (In gallons)		Method used to determine pumpage
	System Total from ALL wells	Monthly Average (Total/Days in Month)	
N/A	N/A gal	N/A gal	<input type="checkbox"/> Flow meter
N/A	N/A gal	N/A gal	<input type="checkbox"/> Other (specify below)
N/A	N/A gal	N/A gal	
N/A	N/A gal	N/A gal	
N/A	N/A gal	N/A gal	
N/A	N/A gal	N/A gal	Average hours pumped per day N/A
Six Month - Grand Total	gal		

Static water level (SWL)***	24.55 ft.	Elevation 143.647 ft.	Well no.	Rec	Date measured	12-08-05
Pumping water level (PWL)***	46.50 ft.	Elevation 121.697 ft.	Well no.	Rec	Date measured	12-08-05

(Use additional sheet if necessary)

Number of hrs shutdown for SWL measurement 2.17. Number of continuous hrs pumped for PWL measurement 0.67.

Method of measurement: ☐ Air line ☒ Probe ☐ Tape ☐ Other (specify) _____

Measurement from: ☒ Top of casing ☐ Ground ☐ Other (specify) _____

*** Obtain and submit appropriate sets of water level measurements as indicated below:

From 1-5 wells	- a set from ONLY 1 WELL	Take readings from the highest yield well(s) using the same well(s) each time. For additional wells, follow this format.
From 6-10 wells	- a set from ONLY 2 WELL	
From 11-15 wells	- a set from ONLY 3 WELL	
From 16-20 wells	- a set from ONLY 4 WELL	

And such other pertinent information submitted by the applicant or required by the Division.

I certify that the above information is true to the best of my knowledge.

Signed

Clifton L. Buck, Chemistry Manager

title

Date

1/6/06

Return Report To:

Georgia Environmental Protection
Water Withdrawal Permitting Program
Groundwater Permitting Unit
1120 International Parkway
Atlanta, Georgia 30354

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



Energy to Serve Your WorldSM

File: E.03.34

Log: EV-06-1477

July 7, 2006

Vogtle Electric Generating Plant
Ground Water Use Permit No. 017-0003
Semi-Annual Report

Mr. Bill Frechette
Georgia Environmental Protection Division
Water Withdrawal Permitting Program
Groundwater Permitting Unit
4220 International Parkway, Suite 101
Atlanta, GA 30354

Dear Mr. Frechette:

In accordance with standard condition #3 of the Vogtle Electric Generating Plant Ground Water Use Permit (No. 017-0003) and Rule 391-3-2-.08, enclosed is the semi-annual Ground Water Use Report for the first half of 2006.

If you have any questions, please contact Jessica Joyner at (205) 992-7693.

Sincerely,

A handwritten signature in cursive script, appearing to read "J. M. Godfrey".

J. M. Godfrey
Environmental Affairs Manager

JMG/JAJ:ahl

Enclosure



Groundwater Use Report

This form shall be submitted to the Division twice each year, within the reporting period specified on the Groundwater Withdrawal Permit under Standard Condition No. 3.

(Print or type ALL information)

Permittee Information			
Contact Person: Mike Godfrey		Phone: (205) 992-6387	Email: JGODFREY@southernco.com
Company / Permittee: Southern Nuclear Operating Company / Vogtle Electric Generating Plant			
Address: P.O. Box 1295, Birmingham, Alabama 35201			
(No. and Street)		(City)	(State) (Zip)
GW Withdrawal Permit No.: 017 - 0003		For six (6) month period from January 2006 thru June 2006	
County where well(s) is located: Burke County, GA			
This report is on the Cretaceous Sand aquifer(s) used by well(s) numbered MU-1, MU-2A, TW-1, SW-5, SB, Rec, CW-3, & IW-4, SEC			
Month/Year	Amount of water pumped from aquifer(s) each MONTH (in gallons)		Method used to determine pumpage
	System Total from ALL wells	Monthly Average (Total/Days in Month)	
January/2006	20309500 gal	655100 gal	<input checked="" type="checkbox"/> Flow meter
February/2006	24932900 gal	890500 gal	<input type="checkbox"/> Other (specify below)
March/2006	27213400 gal	877900 gal	
April/2006	30291800 gal	1009700 gal	
May/2006	23786400 gal	767300 gal	
June/2006	27432400 gal	914400 gal	Average hours pumped per day 7.1
Six Month - Grand Total	153966400 gal		
Static water level (SWL)*** 46.23 ft. Elevation 154.30 ft. Well no. MU-1 Date measured 06-07-06			
Pumping water level (PWL)*** 52.03 ft. Elevation 148.50 ft. Well no. MU-1 Date measured 06-07-06			
(Use additional sheet if necessary)			
Number of hrs shutdown for SWL measurement 0.50. Number of continuous hrs pumped for PWL measurement 0.50.			
Method of measurement: <input type="checkbox"/> Air line <input checked="" type="checkbox"/> Probe <input type="checkbox"/> Tape <input type="checkbox"/> Other (specify) _____			
Measurement from: <input checked="" type="checkbox"/> Top of casing <input type="checkbox"/> Ground <input type="checkbox"/> Other (specify) _____			
*** Obtain and submit appropriate sets of water level measurements as indicated below:			
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And such other pertinent information submitted by the applicant or required by the Division.			

I certify that the above information is true to the best of my knowledge.

Signed

Clifton L. Buck, Chemistry Manager

Title

Date

Return Report To:

Georgia Environmental Protection Division
Water Withdrawal Permitting Program
Groundwater Permitting Unit (GWPU)
4220 International Parkway, Suite 101
Atlanta, Georgia 30354



Groundwater Use Report

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Month/Year	Amount of water pumped from aquifer(s) each MONTH (in gallons)		Method used to determine pumpage	
	System Total from ALL wells	Monthly Average (Total/Days in Month)		
January/2006	N/A gal	N/A gal	<input type="checkbox"/> Flow meter	
February/2006	N/A gal	N/A gal	<input type="checkbox"/> Other (specify below)	
March/2006	N/A gal	N/A gal		
April/2006	N/A gal	N/A gal		
May/2006	N/A gal	N/A gal		
June/2006	N/A gal	N/A gal	Average hours pumped per day _____	
Six Month - Grand Total	N/A gal			
Static water level (SWL)*** 24.68 ft. Elevation 143.517 ft. Well no. Rec Date measured 06-07-06				
Pumping water level (PWL)*** 44.30 ft. Elevation 123.897 ft. Well no. Rec Date measured 06-07-06				
(Use additional sheet if necessary)				
Number of hrs shutdown for SWL measurement <u>0.50</u> . Number of continuous hrs pumped for PWL measurement <u>0.50</u> .				
Method of measurement: <input type="checkbox"/> Air line <input checked="" type="checkbox"/> Probe <input type="checkbox"/> Tape <input type="checkbox"/> Other (specify) _____				
Measurement from: <input checked="" type="checkbox"/> Top of casing <input type="checkbox"/> Ground <input type="checkbox"/> Other (specify) _____				
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From 16-20 wells	- a set from ONLY 4 WELL			
And such other pertinent information submitted by the applicant or required by the Division.				

I certify that the above information is true to the best of my knowledge.

Signed

Clifton L. Buck, Chemistry Manager

Title

Date

7/6/06

Return Report To:

Georgia Environmental Protection Division
Water Withdrawal Permitting Program
Groundwater Permitting Unit (GWPU)
1420 William H. Hall Parkway, Suite 101
Atlanta, Georgia 30334