



Tennessee Valley Authority, Post Office Box 2000, Soddy Daisy, Tennessee 37384-2000

February 1, 2017

State of Tennessee  
Department of Environment and Conservation  
Division of Water Resources  
William R. Snodgrass Tennessee Tower  
312 Rosa L. Parks Avenue, 11th Floor  
Nashville, Tennessee 37243

Mr. Wayne Muirhead:

TENNESSEE VALLEY AUTHORITY (TVA) – SEQUOYAH NUCLEAR PLANT (SQN) - NPDES  
PERMIT NO. TN0026450 – 2016 ANNUAL WATER WITHDRAWAL UPDATE

In accordance with the provisions of the Tennessee Water Resources Information Act of 2002, T.C.A. 69-7-301 et seq., enclosed are completed Water Withdrawal Registration Forms for SQN for calendar year 2016.

As previously reported, federal agencies are not subject to laws and regulations promulgated by state governments unless Congress has clearly waived the federal government's sovereign immunity. However, TVA has voluntarily agreed as a matter of policy to provide the registration information to assist both TVA and TDEC in carrying out their water management responsibilities. By voluntarily cooperating with the State of Tennessee in its water management programs, TVA does not waive any immunity it may have under the Constitution from State regulation and control, nor manifest any position on who may control or own the water.

If you have any questions or need additional information, please contact Millicent Garland at (423) 843-6714 or by e-mail [mrmoore@tva.gov](mailto:mrmoore@tva.gov) of Sequoyah's environmental staff.

*I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.*

Sincerely,

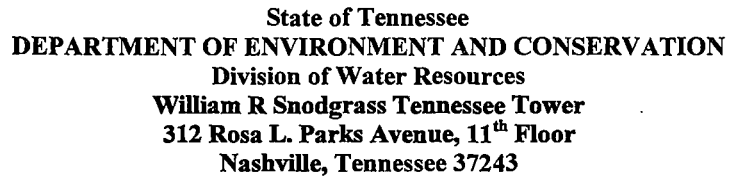
Gregory A. Boerschig  
Site Vice President (Interim)  
Sequoyah Nuclear Plant

Enclosures  
cc (Enclosures):

Chattanooga Environmental Field Office  
Division of Water Pollution Control  
State Office Building, Suite 550  
540 McCallie Avenue  
Chattanooga, Tennessee 37402-2013

U.S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Washington, D.C. 20555

D030  
C001  
NRR



**WATER WITHDRAWAL INFORMATION**Year: 2016 Water Withdrawal Registration Number (From Part A, Line 1): 628Company Name: TVA - Sequoyah Nuclear Plant*Copy this page and submit a completed page for each withdrawal site. See attached instructions.***Part C. Water Withdrawals**

Source Point ID Number: N/A  
Source Point Name: TN River (ERCW)  
Source Type: (G, S, or P): S  
County: Hamilton  
River Mile: 484.85  
Latitude: 35 - 13 - 32  
Longitude: 85 - 05 - 13  
Datum (NAD 27 or NAD 83): NAD 27  
Map: NA ☒ On File Attached  
Method of Measure (A, B, C, D, or E): B

JAN Total Withdrawals: 1062.88 MG  
FEB Total Withdrawals: 995.71 MG  
MAR Total Withdrawals: 1077.76 MG  
APR Total Withdrawals: 1047.43 MG  
MAY Total Withdrawals: 1097.40 MG  
JUNE Total Withdrawals: 1157.38 MG  
JULY Total Withdrawals: 1205.77 MG  
AUG Total Withdrawals: 1250.15 MG  
SEPT Total Withdrawals: 1115.00 MG  
OCT Total Withdrawals: 1136.78 MG  
NOV Total Withdrawals: 1075.93 MG  
DEC Total Withdrawals: 1068.62 MG  
10. Total Annual Withdrawals: 13290.80 MG

11. Total # Days Water Withdrawn in Year: 36512. Grand Total Water Withdrawals: 575278.16 MG13. Grand Total # Days Water Withdrawn in Year: 36514. Average Daily Water Withdrawals: 1576.87 MGD15. Maximum Day Water Withdrawal: 1711.21 MG16. Maximum Day Water Withdrawal occurred in this month: August**Part D. Water Discharge (if applicable)**

Discharge Point ID Number: 117  
Discharge Point Name: TN River (ERCW)  
NPDES Permit No.: TN0026450  
County: Hamilton  
River Mile: 484.85  
Latitude: 35 - 13 - 32  
Longitude: 85 - 05 - 13  
Datum: NAD 27 or 83: NAD 27  
Map on file or attached: On File  
Method of Measure (A, B, C, D, or E): B

JAN Total Discharge: 0.4258 MG  
FEB Total Discharge: 0.4258 MG  
MAR Total Discharge: 0.4258 MG  
APR Total Discharge: 0.4258 MG  
MAY Total Discharge: 0.4258 MG  
JUNE Total Discharge: 0.4258 MG  
JULY Total Discharge: 0.4258 MG  
AUG Total Discharge: 0.4258 MG  
SEPT Total Discharge: 0.4258 MG  
OCT Total Discharge: 0.4258 MG  
NOV Total Discharge: 0.4258 MG  
DEC Total Discharge: 0.4258 MG  
17. Total Annual Discharges: 5.11 MG

18. Grand Total Discharges: 641444.36 MG**Part E. Signature**

I certify, under penalty of law, including but not limited to penalties for perjury, that this document and all attachments were prepared by me, or under my direction or supervision; that all of the submitted information is to the best of my knowledge and belief true, accurate, and complete; and that I am lawfully present in the United States as a U.S. citizen or a qualified alien as defined in 8 U.S.C. §1641(b). As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury. I understand that the penalties for providing false information and making false or fraudulent statements or representations include revocation in a fine, permit or license, civil penalties, and/or criminal prosecution resulting in a fine, imprisonment or both.

Date: 2-2-1719. Print Name: Gregory A. BoerschigTitle: Site Vice President (Interim)20. Signature: 

## WATER WITHDRAWAL INFORMATION

Year: 2016 Water Withdrawal Registration Number (From Part A, Line 1): 628

Company Name: TVA - Sequoyah Nuclear Plant

Copy this page and submit a completed page for each withdrawal site. See attached instructions.

### Part C. Water Withdrawals

Source Point ID Number: N/A  
Source Point Name: N/A  
Source Type: (G, S, or P): N/A  
County: N/A  
River Mile: N/A  
Latitude: N/A  
Longitude: N/A  
Datum (NAD 27 or NAD 83): N/A  
Map: X NA On File Attached  
Method of Measure (A, B, C, D, or E): N/A

JAN Total Withdrawals:	<u>N/A</u>	<u>MG</u>
FEB Total Withdrawals:	<u>N/A</u>	<u>MG</u>
MAR Total Withdrawals:	<u>N/A</u>	<u>MG</u>
APR Total Withdrawals:	<u>N/A</u>	<u>MG</u>
MAY Total Withdrawals:	<u>N/A</u>	<u>MG</u>
JUNE Total Withdrawals:	<u>N/A</u>	<u>MG</u>
JULY Total Withdrawals:	<u>N/A</u>	<u>MG</u>
AUG Total Withdrawals:	<u>N/A</u>	<u>MG</u>
SEPT Total Withdrawals:	<u>N/A</u>	<u>MG</u>
OCT Total Withdrawals:	<u>N/A</u>	<u>MG</u>
NOV Total Withdrawals:	<u>N/A</u>	<u>MG</u>
DEC Total Withdrawals:	<u>N/A</u>	<u>MG</u>

10. Total Annual Withdrawals: N/A MG

11. Total # Days Water Withdrawn in Year: 365

12. Grand Total Water Withdrawals: 575278.16 MG

13. Grand Total # Days Water Withdrawn in Year: 365

14. Average Daily Water Withdrawals: 1576.87 MGD

15. Maximum Day Water Withdrawal: 1711.21 MG

16. Maximum Day Water Withdrawal occurred in this month: August

### Part D. Water Discharge (if applicable)

Discharge Point ID Number: 101  
Discharge Point Name: TN River (Diffuser Pond)  
NPDES Permit No.: TN0026450  
County: Hamilton  
River Mile: 483.65  
Latitude: 35 - 12 - 35  
Longitude: 85 - 05 - 14  
Datum: NAD 27 or 83: NAD 27  
Map on file or attached: On File  
Method of Measure (A, B, C, D, or E): E

JAN Total Discharge:	<u>49397.34</u>	<u>MG</u>
FEB Total Discharge:	<u>48374.22</u>	<u>MG</u>
MAR Total Discharge:	<u>54593.08</u>	<u>MG</u>
APR Total Discharge:	<u>52023.33</u>	<u>MG</u>
MAY Total Discharge:	<u>55519.90</u>	<u>MG</u>
JUNE Total Discharge:	<u>54326.15</u>	<u>MG</u>
JULY Total Discharge:	<u>55834.01</u>	<u>MG</u>
AUG Total Discharge:	<u>55629.45</u>	<u>MG</u>
SEPT Total Discharge:	<u>54222.10</u>	<u>MG</u>
OCT Total Discharge:	<u>55782.95</u>	<u>MG</u>
NOV Total Discharge:	<u>51480.42</u>	<u>MG</u>
DEC Total Discharge:	<u>54254.10</u>	<u>MG</u>

17. Total Annual Discharges: 641437.06 MG

18. Grand Total Discharges: 641444.36 MG

### Part E. Signature

I certify, under penalty of law, including but not limited to penalties for perjury, that this document and all attachments were prepared by me, or under my direction or supervision; that all of the submitted information is to the best of my knowledge and belief true, accurate, and complete; and that I am lawfully present in the United States as a U.S. citizen or a qualified alien as defined in 8 U.S.C. §1641(b). As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury. I understand that the penalties for providing false information and making false or fraudulent statements or representations include revocation in a fine, permit or license, civil penalties, and/or criminal prosecution resulting in a fine, imprisonment or both.

Date: 2-2-17

19. Print Name: Gregory A. Boerschig

Title: Site Vice President (Interim)

20. Signature: 

## WATER WITHDRAWAL INFORMATION

Year: 2016 Water Withdrawal Registration Number (From Part A, Line 1): 628

Company Name: TVA - Sequoyah Nuclear Plant

Copy this page and submit a completed page for each withdrawal site. See attached instructions.

### Part C. Water Withdrawals

Source Point ID Number: N/A  
Source Point Name: TN River (CCW)  
Source Type: (G, S, or P): S  
County: Hamilton  
River Mile: 485.2  
Latitude: 35 - 13 - 33  
Longitude: 85 - 05 - 13  
Datum (NAD 27 or NAD 83): NAD 27  
Map: NA X On File Attached  
Method of Measure (A, B, C, D, or E): B

JAN Total Withdrawals:	<u>42815.52</u>	<u>MG</u>
FEB Total Withdrawals:	<u>43354.08</u>	<u>MG</u>
MAR Total Withdrawals:	<u>50086.08</u>	<u>MG</u>
APR Total Withdrawals:	<u>48470.4</u>	<u>MG</u>
MAY Total Withdrawals:	<u>50086.08</u>	<u>MG</u>
JUNE Total Withdrawals:	<u>48470.4</u>	<u>MG</u>
JULY Total Withdrawals:	<u>50086.08</u>	<u>MG</u>
AUG Total Withdrawals:	<u>50086.08</u>	<u>MG</u>
SEPT Total Withdrawals:	<u>48470.4</u>	<u>MG</u>
OCT Total Withdrawals:	<u>50086.08</u>	<u>MG</u>
NOV Total Withdrawals:	<u>46585.44</u>	<u>MG</u>
DEC Total Withdrawals:	<u>33390.72</u>	<u>MG</u>

10. Total Annual Withdrawals: 561987.36 MG

11. Total # Days Water Withdrawn in Year: 365

12. Grand Total Water Withdrawals: 575278.16 MG

13. Grand Total # Days Water Withdrawn in Year: 365

14. Average Daily Water Withdrawals: 1576.87 MGD

15. Maximum Day Water Withdrawal: 1711.21 MG

16. Maximum Day Water Withdrawal occurred in this month: August

### Part D. Water Discharge (if applicable)

Discharge Point ID Number: 116  
Discharge Point Name: TN River (CCW)  
NPDES Permit No.: TN0026450  
County: Hamilton  
River Mile: 485.2  
Latitude: 35 - 13 - 33  
Longitude: 85 - 05 - 13  
Datum: NAD 27 or 83: NAD 27  
Map on file or attached: On File  
Method of Measure (A, B, C, D, or E): B

JAN Total Discharge:	<u>0.1825</u>	<u>MG</u>
FEB Total Discharge:	<u>0.1825</u>	<u>MG</u>
MAR Total Discharge:	<u>0.1825</u>	<u>MG</u>
APR Total Discharge:	<u>0.1825</u>	<u>MG</u>
MAY Total Discharge:	<u>0.1825</u>	<u>MG</u>
JUNE Total Discharge:	<u>0.1825</u>	<u>MG</u>
JULY Total Discharge:	<u>0.1825</u>	<u>MG</u>
AUG Total Discharge:	<u>0.1825</u>	<u>MG</u>
SEPT Total Discharge:	<u>0.1825</u>	<u>MG</u>
OCT Total Discharge:	<u>0.1825</u>	<u>MG</u>
NOV Total Discharge:	<u>0.1852</u>	<u>MG</u>
DEC Total Discharge:	<u>0.1825</u>	<u>MG</u>

17. Total Annual Discharges: 2.19 MG

18. Grand Total Discharges: 641444.36 MG

### Part E. Signature

I certify, under penalty of law, including but not limited to penalties for perjury, that this document and all attachments were prepared by me, or under my direction or supervision; that all of the submitted information is to the best of my knowledge and belief true, accurate, and complete; and that I am lawfully present in the United States as a U.S. citizen or a qualified alien as defined in 8 U.S.C. §1641(b). As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury. I understand that the penalties for providing false information and making false or fraudulent statements or representations include revocation in a fine, permit or license, civil penalties, and/or criminal prosecution resulting in a fine, imprisonment or both.

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Title: Site Vice President (Interim)

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