

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

February 11, 2013

State of Tennessee Department of Environment and Conservation Division of Water Supply 6th Floor, L & C Tower 401 Church Street Nashville, Tennessee 37243-1549

Mr. Wayne Muirhead:

TENNESSEE VALLEY AUTHORITY (TVA) – SEQUOYAH NUCLEAR PLANT (SQN) - NPDES PERMIT NO. TN0026450 – 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 2012.

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 Brad Love at (423) 843-6714 or by e-mail bmlove@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.

Site Vice President 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

CODI



DEPARTMENT OF ENVIRONMENT AND CONSERVATION DIVISION OF WATER SUPPLY 6th Floor L & C Tower, 401 Church Street Nashville, Tennessee 37243-1539

(615) 532-0191

WATER WITHDRAWAL REGISTRATION

In accordance with the provisions of Tennessee Code Annotated Section 69-7-301 et seq., the Water Resources Information Act; this registration is required for anyone withdrawing an average of 10,000 gallons or more of water per day. See attached instructions.

PART A. FACILITY & CONTACT INFORMATION

| 1. | Withdrawal Registration No.: _62 | .8 | (For | Officia | al Use On | ıly) | |
|--|--|---|--|---|--|---|-----------------------------|
| 2. | Water User: TVA - Sequoyah Nu | iclear Plai | nt | | Type: | Thermal P | lant (Nuclear) |
| | Mailing Address: P.O. Box 2000 | Mailstop | OPS-5N-S | SQN | | | |
| | City: Soddy-Daisy | _ State: | Tennes | see | Zip: | 37384 | · |
| 3. | Location (if different from mailing | address): | | - | | | |
| | Street Address: Sequoyah Access | Road | | | | | |
| | City: Soddy-Daisy | _ State: | Tennes | see | Zip: | 37379 | |
| 4. | Number of employees at location: | 1147 | | | | | |
| 5. | Indicate the contact individual for w | ater with | drawal inf | format | ion: | | |
| | Name: Bradley Love | Title: | Environ | nental | Scientist | | |
| | e-mail: bmlove@tva.gov | | Phone: | 423- | 843-6714 | Fax: | 423-843-7428 |
| PAI6.7.8. | RT B. WATER USE REPORTING Year: 2012 (Check One): New Operation List any water problems you have examples. | tion | X Ren | | orting per | iod: <u>N//</u> | 4 |
| 9. | Classification of Water Use (Use al0%a) Domestic water use (d0%b) Institutional or other gen0%c) Irrigation of crops, pasta0%d) livestock watering (include)0%e) navigation (lock usage at100%f) thermoelectric power prod0%g) recreational use, park us0%h) industrial uses include n0%i) hydroelectric power gend0%j) mining (milling or where0%k) dewatering (mining, quade)0%l) any other use not defined100%Total (Must equal 100%) | drinking, heral uses ures and nu udes feed l nd flow au oduction, i e, golf cou hanufactur eration (pri- e water is u urry rock p l above. D | human con (lawn wate arsery stock ots, dairy s agmentation ncluding co arse irrigati ing, food p ovided non used to was roduction, | nsump ring, la anitation for na coling j on, wa rocessi e of it h or pr | tion and sundry) on and fish avigation) purposes (ter park us ing, washin is used con occss an o | general sam farming) excludes hy se ng, and coo nsumptively re) | ydroelectric) ling y) |

WATER WITHDRAWAL INFORMATION

Year: 2012 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 or discharge site. See attached instructions.

Part C. Water Withdrawals

Part D. Water Discharge (if applicable)

| Source Point ID Number: | N/A | | Discharge Point ID Numbe | r: <u>101</u> | _ |
|--|--|----------------|---|-----------------------|-------|
| Source Point Name: <u>N/A</u> | | | Discharge Point Name: Th | N RIVER (DIFFL | JSER) |
| Source Type: (G, S, or P): | : <u>N/A</u> | | NPDES Permit No.: TN00 | 26450 | |
| County: N/A | | | County: HAMILTON | | |
| River Mile: N/A | | | River Mile: 483.65 | | |
| Latitude: N/A | | | Latitude: 35 - 12 - 35 | | _ |
| Longitude: N/A | | | Longitude: 85 - 05 - 14 | , | |
| Datum (NAD 27 or NAD | 83): N/A | | Datum: NAD 27 or 83: NA | AD 27 | |
| Map: X NA | On File | Attached | Map: NA X O | n file Attac | ched |
| Method of Measure (A, B | , C, D, or E): <u>N/A</u> | | Method of Measure $\overline{(A, B)}$, | C, D, or E): E | |
| JAN Total Withdrawals: | N/A | MG | JAN Total Discharge: | 49756.00 | MG |
| FEB Total Withdrawals: | N/A | MG | FEB Total Discharge: | 41410.00 | _MG |
| MAR Total Withdrawals: | N/A | MG | MAR Total Discharge: | 29501.00 | _MG |
| APR Total Withdrawals: | N/A | _MG | APR Total Discharge: | 45505.00 | MG |
| MAY Total Withdrawals: | <u>N/A</u> | _MG | MAY Total Discharge: | 50748.00 | _MG |
| JUNE Total Withdrawals: | | MG | JUNE Total Discharge: | 51086.00 | _MG |
| JULY Total Withdrawals: | | MG | JULY Total Discharge: | 53524.00 | _MG |
| AUG Total Withdrawals: | · · · · · · · · · | MG | AUG Total Discharge: | 53929.00 | MG |
| SEPT Total Withdrawals: | | MG | SEPT Total Discharge: | 52390.00 | _MG |
| OCT Total Withdrawals: | | MG | OCT Total Discharge: | | _MG |
| NOV Total Withdrawals: | | _MG | NOV Total Discharge: | <u> </u> | _MG |
| DEC Total Withdrawals: | | _MG | DEC Total Discharge: | | MG |
| 10. Total Annual Withdra | wals: <u>N/A</u> | MG | 17. Total Annual Dischar | ges: <u>536094.00</u> | _MG |
| 11. Total # Days Water W | ithdrawn in Year: | 366 | - | | |
| 12. Grand Total Water Wi | thdrawals: 50554 | <u>1.34</u> MC | G 18. Grand Total Discharg | es: <u>536101.30</u> | _MG |
| 13. Grand Total # Days W | ater Withdrawn in | Year: 366 | | | |
| 14. Average Daily Water V | Withdrawals: 1381 | | MGD | | |
| 15. Maximum Day Water | Withdrawal: 166 | 2.33 | MG | | |
| 16. Month of Maximum D | 6. Month of Maximum Day Water Withdrawal: July | | | | |
| Part E. Signature I hereby certify that the information on this form is accurate and complete to the best of my knowledge. | | | | | |
| Date: 2 /11 / 2013 19. Print Name: John T/1 | Çarlin | | Title: Sequoyah Site V | vice President | |
| 20. Signature: | ANA | | | | |

CN-1226 (Rev. 12/09)

RDA 2854

WATER WITHDRAWAL INFORMATION

Year: 2012

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 or discharge site. See attached instructions.

Part C. Water Withdrawals

Part D. Water Discharge (if applicable)

| Source Point ID Number: <u>N/A</u> | Disc | charge Point ID Numbe | r: <u>116</u> | - | | |
|--|------------------|------------------------------|-----------------------|-----|--|--|
| Source Point Name: TN RIVER (CCW) | Disc | charge Point Name: <u>TN</u> | NRIVER (CCW) | | | |
| Source Type: (G, S, or P): <u>S</u> | NPI | DES Permit No.: TN00 | 26450 | ~ | | |
| County: HAMILTON | | inty: <u>HAMILTON</u> | | _ | | |
| River Mile: 485.2 | | er Mile: <u>485.2</u> | | _ | | |
| Latitude: <u>35 - 13 - 33</u> | Lati | tude: <u>35 - 13 - 33</u> | | _ | | |
| Longitude: <u>85 - 05- 13</u> | | gitude: <u>85 - 05 - 13</u> | | _ | | |
| Datum (NAD 27 or NAD 83): NAD 27 | Dati | um: NAD 27 or 83: <u>NA</u> | AD 27 | - | | |
| • | tached Map | | | hed | | |
| Method of Measure (A, B, C, D, or E): <u>B</u> | Met | hod of Measure (A, B, | C, D, or E): <u>B</u> | | | |
| JAN Total Withdrawals: 47662.56 | MG | JAN Total Discharge: | 0.1825 | MG | | |
| FEB Total Withdrawals: 37699.20 | MG | FEB Total Discharge: | 0.1825 | MG | | |
| MAR Total Withdrawals: 27735.84 | MG | MAR Total Discharge: | 0.1825 | MG | | |
| APR Total Withdrawals: 43354.08 | MG | APR Total Discharge: | 0.1825 | MG | | |
| MAY Total Withdrawals: <u>46316.16</u> | MG | MAY Total Discharge: | 0.1825 | MG | | |
| JUNE Total Withdrawals: 46854.72 | MG . | JUNE Total Discharge: | 0.1825 | MG | | |
| JULY Total Withdrawals: 50086.08 | MG . | JULY Total Discharge: | 0.1825 | MG | | |
| AUG Total Withdrawals: 49547.52 | MG . | AUG Total Discharge: | 0.1825 | MG | | |
| SEPT Total Withdrawals: 48470.40 | MG | SEPT Total Discharge: | 0.1825 | MG | | |
| OCT Total Withdrawals: <u>37160.64</u> | MG | OCT Total Discharge: | 0.1825 | MG | | |
| NOV Total Withdrawals: 24235.20 | MG 1 | NOV Total Discharge: | 0.1825 | MG | | |
| DEC Total Withdrawals: 32582.88 | MG | DEC Total Discharge: | 0.1825 | MG | | |
| 10. Total Annual Withdrawals: 491705.28 | MG 17 | 7. Total Annual Dischar | ges: <u>2.19</u> | MG | | |
| 11. Total # Days Water Withdrawn in Year: <u>366</u> | | | | | | |
| 12. Grand Total Water Withdrawals: 505541.3 | 4MG 18 | 8. Grand Total Discharg | es: <u>536101.30</u> | MG | | |
| 13. Grand Total # Days Water Withdrawn in Y | ar: 366 | | | | | |
| 14. Average Daily Water Withdrawals: 1381.2 | 5 | MGD | | | | |
| 15. Maximum Day Water Withdrawal: <u>1662</u> . | 33 | _MG | | | | |
| 16. Month of Maximum Day Water Withdrawa | : July | | | | | |
| Part E. Signature I hereby certify that the information on this form | ı is accurate an | nd complete to the best of | of my knowledge. | | | |
| Date: $2/11/2013$ | | | | | | |
| 19. Print Name: John ThCarlin | | Title: Sequoyah Site V | ice President | | | |
| 20. Signature: | | - | | | | |
| CN-1226 (Rev. 12/09) | | | RDA 2 | 854 | | |

WATER WITHDRAWAL INFORMATION

Year: 2012

.

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 or discharge site. See attached instructions.

Part C. Water Withdrawals

Part D. Water Discharge (if applicable)

| Source Point ID Number: N/A | | Discharge Point ID Number: 117 | _ |
|---|----------------|--|----------------|
| Source Point Name: <u>TN RIVER (ERCW)</u> | | Discharge Point Name: TN RIVER (ERCV | V) |
| Source Type: (G, S, or P): S | | NPDES Permit No.: TN0026450 | _ |
| County: HAMILTON | | County: <u>HAMILTON</u> | |
| River Mile: 484.85 | | River Mile: 484.85 | |
| Latitude: <u>35 - 13 - 32</u> | | Latitude: <u>35 - 13 - 32</u> | _ |
| Longitude: 85 - 05 - 03 | | Longitude: <u>85 - 05 - 03</u> | |
| Datum (NAD 27 or NAD 83): <u>NAD 27</u> | <u> </u> | Datum: NAD 27 or 83: NAD 27 | . . |
| Map: NA X On File | _Attached | · | ched |
| Method of Measure (A, B, C, D, or E): B | | Method of Measure (A, B, C, D, or E): <u>B</u> | |
| JAN Total Withdrawals: 1090.35 | MG | JAN Total Discharge: 0.4258 | _MG |
| FEB Total Withdrawals: 1021.78 | MG | FEB Total Discharge: 0.4258 | _MG |
| MAR Total Withdrawals: 1020.88 | MG | MAR Total Discharge: 0.4258 | _MG |
| APR Total Withdrawals: 1094.28 | MG | APR Total Discharge: 0.4258 | _MG |
| MAY Total Withdrawals: 1210.67 | MG | MAY Total Discharge: 0.4258 | _MG |
| JUNE Total Withdrawals: 1296.77 | MG | JUNE Total Discharge: 0.4258 | _MG |
| JULY Total Withdrawals: 1446.23 | MG | JULY Total Discharge: 0.4258 | _MG |
| AUG Total Withdrawals: 1362.59 | MG | AUG Total Discharge: 0.4258 | _MG |
| SEPT Total Withdrawals: 1139.63 | MG | SEPT Total Discharge: 0.4258 | _MG |
| OCT Total Withdrawals: 1095.29 | MG | OCT Total Discharge: 0.4258 | _MG |
| NOV Total Withdrawals: 921.71 | MG | NOV Total Discharge: 0.4258 | MG |
| DEC Total Withdrawals: 1135.86 | MG | DEC Total Discharge: 0.4258 | _MG |
| 10. Total Annual Withdrawals: 13836.06 | MG | 17. Total Annual Discharges: 5.11 | _ме |
| 11. Total # Days Water Withdrawn in Year: | 366 | | |
| 12. Grand Total Water Withdrawals: 50554 | <u>41.34</u> N | 1G 18. Grand Total Discharges: 536101.30 | _MG |
| 13. Grand Total # Days Water Withdrawn in | 1 Year: 366 | | |
| 14. Average Daily Water Withdrawals: 138 | 1.26 | MGD | |
| 15. Maximum Day Water Withdrawal: <u>16</u> | 62.33 | MG | |
| 16. Month of Maximum Day Water Withdra | awal: July | | |
| Part E. Signature | | | |
| | form is accu | rate and complete to the best of my knowledge. | |
| Date: <u>2 /11/2013</u> | _ | | |
| 19. Print Name: John A Carlin | | Title: Sequoyah Site Vice President | |
| 20. Signature: | | | |
| (Who who | | | |
| CN-1226 (Rev. 12/09) | | RDA | 2854 |