



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

January 22, 2008

State of Tennessee
Department of Environment and Conservation
Division of Water Supply
Compliance Review Section
6th Floor, L&C Annex
401 Church Street
Nashville, Tennessee 37243-1534

To whom it may concern:

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

In accordance with the provisions of Tennessee Code Annotated Section 69-8-301 et seq, enclosed are completed Water Withdrawal Registration Forms for SQN for calendar year 2007.

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.

Should you have any questions or need additional information, please contact me at 423-843-6700 or by e-mail at sahoward@tva.gov.

Sincerely,

Stephanie A. Howard
Principal Environmental Engineer
Signatory Authority for
Timothy P. Cleary
Site Vice President
Sequoyah Nuclear Plant

Enclosure
cc (Enclosure):

Chattanooga Environmental Assistance Center
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



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.

PART A. FACILITY & CONTACT INFORMATION

1. Withdrawal Registration No.: 628 (For Official Use Only)
2. Water User: TVA-SEQUOYAH NUCLEAR PLANT Type: THERMAL PLANT
Mailing Address: P.O. BOX 2000 SB-2A-SQN
City: SODDY-DAISY State: TN Zip: 37384-2000
3. Location (if different from mailing address):
Street Address: SEQUOYAH ACCESS ROAD
City: SODDY-DAISY State: TN Zip: 37384-2000
4. Number of employees at location: 873
5. Indicate the contact individual for water withdrawal information:
Name: Stephanie A. Howard Title: Principal Environmental Engineer
e-mail: sahoward@tva.gov Phone: 423-843-6700 Fax: 423-843-7080

PART B. WATER USE REPORTING PERIOD

6. Year: 2007 Seasonal Withdrawals (Month/Year): N/A Beginning (Month/Year): N/A Ending (Month/Year): N/A
7. Water Registration: (Check One): New Operation Renewal
8. List any water problems you have experienced in the last reporting period: N/A
9. Number of days ground water (springs and wells) has been withdrawn during the year: 0
10. Number of days surface water (streams) has been withdrawn during the year: 365
11. **Total number of days water has been withdrawn during the year:** 365
No surface or ground water is withdrawn—all water is purchased from: N/A

12. Classification of Water Use (Use all that Apply) and Percentage of Total use:

- % a) Domestic water use (drinking, human consumption and general sanitation uses)
- % b) Institutional or other general uses (lawn watering, laundry)
- % c) Irrigation of crops, pastures and nursery stock
- % d) livestock watering (includes feed lots, dairy sanitation and fish farming)
- % e) navigation (lock usage and flow augmentation for navigation)
- 100 % f) thermoelectric power production, including cooling purposes (excludes hydroelectric)
- % g) recreational use, park use, golf course irrigation, water park use
- % h) industrial uses include manufacturing, food processing, washing, and cooling
- % i) hydroelectric power generation (provided none of it is used consumptively)
- % j) mining (milling or where water is used to wash or process an ore)
- % k) dewatering (mining, quarry rock production, other operations where water is withdrawn)
- % l) any other use not defined above. Describe: _____
- 100 % **Total (Must equal 100%)**

PART C. WATER WITHDRAWAL INFORMATION (Attach additional sheets if necessary)

Year	G		S		River	Longitude	Method	Million
I.D. #	Source Name	P ¹	County	Mile	Latitude ²	²	of Measure ³	Gallons Withdrawn
2007								
116	TN River	S	Hamilton	485.2	35-13-33	85-05-13	B	589723.2
117	TN River	S	Hamilton	484.85	35-13-32	85-05-03	B	23126.4
13. Total Volume Withdrawn in Million Gallons=								612849.6
14. Average Daily Water Withdrawal for year (Line 13 divided by Line 11)=								1679.04
15. Max. Daily Water Withdrawal (MG): 1679.04 Occurred in the Month of: any month								
¹ G=Ground water (well or spring); S=Surface water (stream, river, holding pond, lake); P=Purchased water				³ Method of Measurement Key: A=Flow Meter B=Calculated using pump capacity rating and duration of pumpage C=Capacity of vessel holding water D=Electronic flow measurement E=Other (explain below:)				
(Check One) ² Datum: <input type="checkbox"/> NAD 27 <input type="checkbox"/> NAD 83								

PART D. WATER DISCHARGE (Attach additional sheets if necessary)

Year	Discharge Site	River	NPDS	Percent	Million			
I.D. #	Name ⁴	Mile	County	Permit #	Latitude	Longitude	of effluent	Gallons Returned
2007								
101	TN River	483.65	Hamilton	TN0026450	35-12-35	85-05-14	99%	552097.00
116	TN River	485.2	Hamilton	TN0026450	35-13-33	85-05-13	<1%	2.19
117	TN River	484.85	Hamilton	TN0026450	35-13-32	85-05-03	<1%	5.11
16. Total Volume of Water Returned (Effluent or Discharge) in Million Gallons equals:								552104.3

⁴Examples of discharge sites: stream, well injection, spray, public sewer system, septic tank, field tile

PART E. SIGNATURE

I hereby certify that the information on this form is true and complete to the best of my knowledge.

Print Stephanie A. Howard Signatory Authority for Timothy
 16. **Name:** P. Cleary Site Vice President Sequoyah **Date:** 1/22/2008
 17. **Signature:** Stephanie A. Howard