



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

May 1, 2015

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

Dear Sir or Madam:

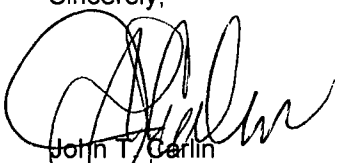
TENNESSEE VALLEY AUTHORITY (TVA) - FORM CN 1112 - DYE TRACE REGISTRATION

Enclosed is the completed form CN 1112, Dye Trace Registration, for dye testing to be conducted at Sequoyah Nuclear Plant. Testing is tentatively scheduled for either the week of May 4 or May 18. Testing will be conducted using a very small amount of dye (about 500 mL) to investigate in-leakage inside the Turbine Building. The dye is expected to dissipate before reaching Tennessee River.

If you have questions, please contact Millicent Garland, Environmental Scientist, at 423-843-6714 or at [mrmoore@tva.gov](mailto:mrmoore@tva.gov).

*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,



John T. Carlin  
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, DC 20555

COU  
MRR



TENNESSEE DEPARTMENT OF ENVIRONMENT & CONSERVATION  
DIVISION OF WATER RESOURCES – DRINKING WATER UNIT

William R. Snodgrass - Tennessee Tower  
312 Rosa L. Parks Avenue, 11<sup>th</sup> Floor, Nashville, Tennessee 37243-1102

Tennessee Department of Environment & Conservation  
Dye Trace Registration

Name, Address, Phone number of the Owner/Operator of the Facility Necessitating the Trace Preston Pratt, Plant Manager Sequoyah Nuclear Plant Sequoyah Access Road, Soddy-Daisy, TN 37384		Name, Address, Phone Number of the Person/Company performing the Trace AMEC, Foster Wheeler 9725 Cogdill Road Knoxville, TN 37932 865-671-6774																																								
Name and Address and Phone Number of the Property Owner John Carlin, Site Vice President Sequoyah Nuclear Plant Sequoyah Access Road, Soddy-Daisy, TN 37384		Reason For the Trace To investigate the source of in-leakage inside the Turbine Building																																								
If State or Federal Agency Oversight, Give Agency Contact Information n/a		Is the Area Served by a Public Water System <input checked="" type="checkbox"/> Yes: Name the Water System <u>Hixson Utilities</u> <input type="checkbox"/> No: Estimate Percentage of Private Well/Spring Use Versus Public Water Use																																								
Dyes to Be Used		Receptors <u>none</u>																																								
<table border="1"><thead><tr><th>Type</th><th>Amount</th><th>Location</th></tr></thead><tbody><tr><td>Red, aqueous</td><td>1 pint</td><td>Inside Turbine Building</td></tr><tr><td>Blue, aqueous</td><td>1 pint</td><td>Inside Turbine Building</td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr></tbody></table>	Type	Amount	Location	Red, aqueous	1 pint	Inside Turbine Building	Blue, aqueous	1 pint	Inside Turbine Building																	<table border="1"><tr><td><input type="checkbox"/> Type</td><td> </td></tr><tr><td><input type="checkbox"/> Visual</td><td> </td></tr><tr><td colspan="2">Location of Receptors</td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr></table>	<input type="checkbox"/> Type		<input type="checkbox"/> Visual		Location of Receptors											
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Describe Injection Point(s) and Include a copy of a Topographic Map with the locations of the injection points and the locations of receptors (include a Latitude and Longitude for the primary injection point.) The dyes will be injected into borings on the walls inside the Turbine Building. No receptors will be used. Visual observations will be made along cracks inside the building. Dye is expected to dissipate before reaching any bodies of water.																																										
Public Water Systems: List Surface Water Intakes, Wells or Springs within 2 Miles of the Injection Point(s): <u>Tennessee River</u>																																										
<b>Certification</b> I certify under penalty of law that this document and all attachments were prepared by me, or under my direction or supervision. The submitted information 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. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury.																																										
Name and Official Title(please print) John Carlin, Site Vice President	Signature 	Date Signed <u>5/1/15</u>																																								

There are currently no regulations requiring dye trace registration in Tennessee, unless there is the potential to impact a public water system. This registry is designed to avoid cross contamination and re-performing the same or similar trace. The dye tracing registry allows the Department to make informed responses to water pollution inquiries so that dye traces are not mistakenly identified as pollution to waters of the state.



