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Tennessee Valley Authority, Sequoyah Nuclear Plant, P.O. Box 2000, Soddy Daisy, TN 37384

September 10, 2022

ATTN: Document Control Desk  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555-0001

Subject: **Sequoyah Nuclear Plant, Discharge Monitoring Report (DMR), August 2022**

Attached is the August 2022 DMR for Sequoyah Nuclear Plant.

Respectfully,

A handwritten signature in black ink, appearing to read 'T.R. Markum', is written above the typed name.

Travis R. Markum  
Environmental Scientist

**DMR Copy of Record**

<b>Permit</b>		<b>Permittee:</b> Tennessee Valley Authority (TVA)		<b>Facility:</b> TVA SEQUOYAH NUCLEAR PLANT (SQN)	
<b>Permit #:</b> TN0026450	<b>Major:</b> Yes	<b>Permittee Address:</b> Sequoyah Access Road, PO Box 2000 Soddy Daisy, TN 37379	<b>Facility Location:</b> SEQUOYAH ACCESS ROAD SODDY DAISY SODDY DAISY, TN 37379		
<b>Permitted Feature:</b> 101 External Outfall	<b>Discharge:</b> 101-G (no description)				

<b>Report Dates &amp; Status</b>					
<b>Monitoring Period:</b> From 08/01/22 to 08/31/22	<b>DMR Due Date:</b> 09/15/22	<b>Status:</b> NetDMR Validated			

**Considerations for Form Completion**  
Primary discharge from Diffuser Pond.

<b>Principal Executive Officer</b>					
<b>First Name:</b> Thomas	<b>Title:</b> Vice President		<b>Telephone:</b> 423-843-7001		
<b>Last Name:</b> Marshall					

**No Data Indicator (NODI)**  
Form NODI: --

Code	Parameter Name	Monitoring Location	Season #	Param. NODI	Quantity or Loading					Quality or Concentration					# of Ex.	Frequency of Analysis	Sample Type				
					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3				Value 3	Units		
00010	Temperature, water deg. centigrade	1 - Effluent Gross	0	--	Sample								=	41.8		04 - deg C	99/99 - Continuous	RC - Recorder (auto)			
					Permit Req.																
					Value NODI																
00010	Temperature, water deg. centigrade	Z - Instream Monitoring	0	--	Sample								=	29.5		04 - deg C	99/99 - Continuous	CA - CALCTD			
					Permit Req.																
					Value NODI																
00016	Temp. diff. between samp. & upstrm deg. C	1 - Effluent Gross	1	--	Sample								=	1.6		04 - deg C	99/99 - Continuous	CA - CALCTD			
					Permit Req.																
					Value NODI																
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample	=	1774.5	=	1790.6	03 - MGD								99/99 - Continuous	RC - Recorder (auto)		
					Permit Req.		Req Mon MO AVG		Req Mon DAILY MX	03 - MGD											
					Value NODI																
50060	Chlorine, total residual	1 - Effluent Gross	0	--	Sample																
					Permit Req.																
					Value NODI																
82234	Temperature rate of change deg. C/hr	Z - Instream Monitoring	0	--	Sample			=	1.9	62 - deg C/hr								99/99 - Continuous	CA - CALCTD		
					Permit Req.																
					Value NODI																
TRP3B	IC25 Static Renewal 7 Day Chronic Chrceriodaphnia	1 - Effluent Gross	0	--	Sample																
					Permit Req.																
					Value NODI																
TRP6C	IC25 Static Renewal 7 Day Chronic Chrpimephales	1 - Effluent Gross	0	--	Sample																
					Permit Req.																
					Value NODI																

**Submission Note**  
If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

**Edit Check Errors**

No errors.

**Comments**

Method Detection Limit for Total Residual Chlorine is 0.05 mg/L.

**Attachments**

No attachments.

**Report Last Saved By**

**Tennessee Valley Authority (TVA)**

User: TRMARKUM  
Name: Travis Markum  
E-Mail: trmarkum@tva.gov  
Date/Time: 2022-09-08 08:51 (Time Zone: -05:00)

**Report Last Signed By**

User: TMCMUTUA  
Name: Tony McMutuary  
E-Mail: tmcmutuary@tva.gov  
Date/Time: 2022-09-09 15:47 (Time Zone: -05:00)

## DMR Copy of Record

<b>Permit</b>		<b>Permittee:</b> Tennessee Valley Authority (TVA)		<b>Facility:</b> TVA SEQUOYAH NUCLEAR PLANT (SQN)	
<b>Permit #:</b> TN0026450	<b>Major:</b> Yes	<b>Permittee Address:</b> Sequoyah Access Road, PO Box 2000 Soddy Daisy, TN 37379	<b>Facility Location:</b> SEQUOYAH ACCESS ROAD SODDY DAISY SODDY DAISY, TN 37379		
<b>Permitted Feature:</b> 103 Internal Outfall	<b>Discharge:</b> 103-G (no description)				
<b>Report Dates &amp; Status</b>					
<b>Monitoring Period:</b> From 08/01/22 to 08/31/22	<b>DMR Due Date:</b> 09/15/22	<b>Status:</b> NetDMR Validated			
<b>Considerations for Form Completion</b>					
Internal Monitoring Point for various flows from Low Volume Waste Treatment Pond to Diffuser Pond, which eventually discharges through Outfall 101.					
<b>Principal Executive Officer</b>					
<b>First Name:</b> Thomas	<b>Title:</b> Vice President		<b>Telephone:</b> 423-843-7001		
<b>Last Name:</b> Marshall					

**No Data Indicator (NODI)**

Parameter		Monitoring Location	Season #	Param. NODI	Quantity or Loading					Quality or Concentration					# of Ex.	Frequency of Analysis	Sample Type
Code	Name				Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3			
00400	pH	IM - Internal Monitoring Point	0	--	Sample	=	7.9				=	7.9	12 - SU		01/30 - Monthly	GR - GRAB	
					Permit Req.	>=	6.0 MINIMUM			<=	9.0 MAXIMUM	12 - SU					
					Value NODI												
00530	Solids, total suspended	IM - Internal Monitoring Point	0	--	Sample					=	13.0	19 - mg/L		01/30 - Monthly	GR - GRAB		
					Permit Req.				<=	30.0 MO AVG	<=	100.0 DAILY MX				19 - mg/L	
					Value NODI												
00556	Oil & Grease	IM - Internal Monitoring Point	0	--	Sample					<	4.9	19 - mg/L		01/30 - Monthly	GR - GRAB		
					Permit Req.				<=	15.0 MO AVG	<=	20.0 DAILY MX				19 - mg/L	
					Value NODI												
50050	Flow, in conduit or thru treatment plant	IM - Internal Monitoring Point	0	--	Sample	=	1.058	=	1.058	03 - MGD					01/30 - Monthly	IN - INSTAN	
					Permit Req.		Req Mon MO AVG		Req Mon DAILY MX	03 - MGD							
					Value NODI												

**Submission Note**  
If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

**Edit Check Errors**  
No errors.

**Comments**  
The Turbine Building Sump (TBS) discharged directly to Yard Pond (YP) from August 8-10, 2022. See attached summary.

**Attachments**

Name	Type	Size
SQN_August_2022_DMR_TBS_Attachment_1.pdf	pdf	87926.0

**Report Last Saved By**  
**Tennessee Valley Authority (TVA)**

User: TRMARKUM  
Name: Travis Markum  
E-Mail: tmarkum@tva.gov  
Date/Time: 2022-09-08 08:53 (Time Zone: -05:00)

**Report Last Signed By**

User: TMCMUTUA  
Name: Tony McMutuary  
E-Mail: tmcmutuary@tva.gov  
Date/Time: 2022-09-09 15:47 (Time Zone: -05:00)

**TVA Sequoyah Nuclear Plant  
NPDES Permit No. TN0026450  
Attachment 1**

**Turbine Building Sump Monitoring Data**

During August 2022, the turbine building sump was discharged directly to the yard drainage pond from 08/08/22 - 08/10/22. During these periods, the turbine building sump was monitored in accordance with the narrative condition found in Part 1A.2 of NPDES Permit TN0026450.

<b>Parameter</b>	<b>Daily Minimum</b>	<b>Monthly Average</b>	<b>Daily Maximum</b>	<b>No. of Samples</b>
pH	7.62 s.u.	-	7.62 s.u.	1
O&G	-	<5.0 mg/L	<5.0 mg/L	1
TSS	-	4.0 mg/L	4.0 mg/L	1

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<b>Major:</b> Yes		<b>Permittee Address:</b> Sequoyah Access Road, PO Box 2000 Soddy Daisy, TN 37379				<b>Facility Location:</b> SEQUOYAH ACCESS ROAD SODDY DAISY SODDY DAISY, TN 37379												
<b>Permitted Feature:</b> 107 Internal Outfall		<b>Discharge:</b> 107-G (no description)																
<b>Report Dates &amp; Status</b>																		
<b>Monitoring Period:</b> From 08/01/22 to 08/31/22				<b>DMR Due Date:</b> 09/15/22				<b>Status:</b> NetDMR Validated										
<b>Considerations for Form Completion</b>																		
Metal Cleaning Waste Pond discharge. No monitoring required for stormwater decanting. Daily monitoring required only during dewatering events.																		
<b>Principal Executive Officer</b>																		
<b>First Name:</b> Thomas		<b>Title:</b> Vice President				<b>Telephone:</b> 423-843-7001												
<b>Last Name:</b> Marshall																		
<b>No Data Indicator (NODI)</b>																		
<b>Form NODI:</b> --																		
Code	Parameter Name	Monitoring Location	Season #	Param. NODI	Quantity or Loading					Quality or Concentration					# of Ex.	Frequency of Analysis	Sample Type	
					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3				Value 3
00400	pH	IM - Internal Monitoring Point	0	--	Sample													
					Permit Req.					>=	6.0 MINIMUM			<=	9.0 MAXIMUM	12 - SU	01/01 - Daily	GR - GRAB
					Value NODI						C - No Discharge				C - No Discharge			
00530	Solids, total suspended	IM - Internal Monitoring Point	0	--	Sample													
					Permit Req.					<=	30.0 MO AVG			<=	100.0 DAILY MX	19 - mg/L	01/01 - Daily	CP - COMPOS
					Value NODI						C - No Discharge				C - No Discharge			
00556	Oil & Grease	IM - Internal Monitoring Point	0	--	Sample													
					Permit Req.					<=	15.0 MO AVG			<=	20.0 DAILY MX	19 - mg/L	01/01 - Daily	GR - GRAB
					Value NODI						C - No Discharge				C - No Discharge			
01042	Copper, total [as Cu]	IM - Internal Monitoring Point	0	--	Sample													
					Permit Req.					<=	1.0 MO AVG			<=	1.0 DAILY MX	19 - mg/L	01/01 - Daily	CP - COMPOS
					Value NODI						C - No Discharge				C - No Discharge			
01045	Iron, total [as Fe]	IM - Internal Monitoring Point	0	--	Sample													
					Permit Req.					<=	1.0 MO AVG			<=	1.0 DAILY MX	19 - mg/L	01/01 - Daily	CP - COMPOS
					Value NODI						C - No Discharge				C - No Discharge			
<b>Submission Note</b>																		
If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.																		
<b>Edit Check Errors</b>																		
No errors.																		
<b>Comments</b>																		
<b>Attachments</b>																		
No attachments.																		
<b>Report Last Saved By</b>																		
<b>Tennessee Valley Authority (TVA)</b>																		
<b>User:</b> TRMARKUM		<b>Name:</b> Travis Markum				<b>E-Mail:</b> tmarkum@tva.gov												
<b>Date/Time:</b> 2022-09-08 08:54 (Time Zone: -05:00)																		
<b>Report Last Signed By</b>																		
<b>User:</b> TMCMUTUA		<b>Name:</b> Tony McMutuary				<b>E-Mail:</b> tmcmutuary@tva.gov												
<b>Date/Time:</b> 2022-09-09 15:47 (Time Zone: -05:00)																		

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<b>Permit</b>		<b>Permittee:</b> Tennessee Valley Authority (TVA)		<b>Facility:</b> TVA SEQUOYAH NUCLEAR PLANT (SQN)	
<b>Permit #:</b> TN0026450	<b>Major:</b> Yes	<b>Permittee Address:</b> Sequoyah Access Road, PO Box 2000 Soddy Daisy, TN 37379	<b>Facility Location:</b> SEQUOYAH ACCESS ROAD SODDY DAISY SODDY DAISY, TN 37379		
<b>Permitted Feature:</b> 110 External Outfall	<b>Discharge:</b> 110-G (no description)				

<b>Report Dates &amp; Status</b>					
<b>Monitoring Period:</b> From 08/01/22 to 08/31/22	<b>DMR Due Date:</b> 09/15/22	<b>Status:</b> NetDMR Validated			

**Considerations for Form Completion**  
 Outfall 110 is closed. Only active in the event the plant goes into closed mode.

<b>Principal Executive Officer</b>					
<b>First Name:</b> Thomas	<b>Title:</b> Vice President	<b>Telephone:</b> 423-843-7001			
<b>Last Name:</b> Marshall					

**No Data Indicator (NODI)**  
 Form NODI: --

Code	Parameter Name	Monitoring Location	Season #	Param. NODI	Quantity or Loading					Quality or Concentration					# of Ex.	Frequency of Analysis	Sample Type			
					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3				Value 3	Units	
00010	Temperature, water deg. centigrade	1 - Effluent Gross	0	--	Sample															
					Permit Req.														99/99 - Continuous	CA - CALCTD
					Value NODI															
00010	Temperature, water deg. centigrade	Z - Instream Monitoring	0	--	Sample															
					Permit Req.													99/99 - Continuous	CA - CALCTD	
					Value NODI															
00016	Temp. diff. between samp. & upstrm deg. C	1 - Effluent Gross	1	--	Sample															
					Permit Req.													99/99 - Continuous	CA - CALCTD	
					Value NODI															
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample															
					Permit Req.	Req Mon MO AVG		Req Mon DAILY MX	03 - MGD									99/99 - Continuous	RC - Recorder (auto)	
					Value NODI	C - No Discharge		C - No Discharge												
50060	Chlorine, total residual	1 - Effluent Gross	0	--	Sample															
					Permit Req.													05/WK - Five Per Week	GR - GRAB	
					Value NODI															
82234	Temperature rate of change deg. C/hr	Z - Instream Monitoring	0	--	Sample															
					Permit Req.													99/99 - Continuous	CA - CALCTD	
					Value NODI															
TRP3B	IC25 Static Renewal 7 Day Chronic Chrceriodaphnia	1 - Effluent Gross	0	--	Sample															
					Permit Req.													01/30 - Monthly	GR - GRAB	
					Value NODI															
TRP6C	IC25 Static Renewal 7 Day Chronic Chrpimephales	1 - Effluent Gross	0	--	Sample															
					Permit Req.													01/30 - Monthly	GR - GRAB	
					Value NODI															

**Submission Note**  
 If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

**Edit Check Errors**  
 No errors.

**Comments**

**Attachments**  
 No attachments.

**Report Last Saved By**  
 Tennessee Valley Authority (TVA)

User: TRMARKUM  
 Name: Travis Markum  
 E-Mail: trmarkum@tva.gov

Date/Time: 2022-09-08 08:55 (Time Zone: -05:00)

*Report Last Signed By*

User: TCMUTUA

Name: Tony McMutuary

E-Mail: tmcmutuary@tva.gov

Date/Time: 2022-09-09 15:47 (Time Zone: -05:00)



## DMR Copy of Record

<b>Permit</b>			
<b>Permit #:</b>	<b>TN0026450</b>	<b>Permittee:</b>	Tennessee Valley Authority (TVA)
<b>Major:</b>	Yes	<b>Permittee Address:</b>	Sequoyah Access Road, PO Box 2000 Soddy Daisy, TN 37379
<b>Permitted Feature:</b>	118 External Outfall	<b>Discharge:</b>	<b>118-G</b> (no description)
<b>Facility:</b> TVA SEQUOYAH NUCLEAR PLANT (SQN)			
<b>Facility Location:</b> SEQUOYAH ACCESS ROAD SODDY DAISY SODDY DAISY, TN 37379			
<b>Report Dates &amp; Status</b>			
<b>Monitoring Period:</b>	<b>From 08/01/22 to 08/31/22</b>	<b>DMR Due Date:</b>	<b>09/15/22</b>
<b>Considerations for Form Completion</b>		<b>Status:</b>	<b>NetDMR Validated</b>
<b>Principal Executive Officer</b>			
<b>First Name:</b>	Thomas	<b>Title:</b>	Vice President
<b>Last Name:</b>	Marshall	<b>Telephone:</b>	423-843-7001
<b>No Data Indicator (NODI)</b>			
<b>Form NODI:</b>	--		

Code	Parameter Name	Monitoring Location	Season #	Param. NODI	Quantity or Loading					Quality or Concentration					# of Ex.	Frequency of Analysis	Sample Type		
					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3				Value 3	Units
00300	Oxygen, dissolved [DO]	1 - Effluent Gross	0	--	Sample														
					Permit Req.						>=	2.0 MINIMUM				19 - mg/L		02/07 - Twice Every Week	GR - GRAB
					Value NODI							C - No Discharge							
00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample														
					Permit Req.							<=	100.0 DAILY MX		19 - mg/L		02/07 - Twice Every Week	GR - GRAB	
					Value NODI							C - No Discharge							
00545	Solids, settleable	1 - Effluent Gross	0	--	Sample														
					Permit Req.							<=	1.0 DAILY MX		25 - mL/L		01/30 - Monthly	GR - GRAB	
					Value NODI							C - No Discharge							
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample														
					Permit Req.		Req Mon MO AVG		Req Mon DAILY MX	03 - MGD							01/BA - Once Per Batch	ES - ESTIMA	
					Value NODI		C - No Discharge		C - No Discharge										

**Submission Note**  
If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

**Edit Check Errors**  
No errors.

**Comments**

**Attachments**  
No attachments.

**Report Last Saved By**  
Tennessee Valley Authority (TVA)

User: TRMARKUM  
Name: Travis Markum  
E-Mail: tmarkum@tva.gov  
Date/Time: 2022-09-08 08:55 (Time Zone: -05:00)

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