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

July 13, 2023

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

Subject: **Sequoyah Nuclear Plant, Discharge Monitoring Report (DMR), June 2023**

Attached is the June 2023 DMR for Sequoyah Nuclear Plant.

Respectfully,

A handwritten signature in black ink, appearing to read 'T.R. Markum', is positioned 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 06/01/23 to 06/30/23	<b>DMR Due Date:</b> 07/15/23	<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									=	38.7	04 - deg C	99/99 - Continuous	RC - Recorder (auto)			
					Permit Req.																
					Value NODI																
00010	Temperature, water deg. centigrade	Z - Instream Monitoring	0	--	Sample									=	26.5	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									=	2.4	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	=	1767.6	=	1787.1	03 - MGD								99/99 - Continuous	RC - Recorder (auto)		
					Permit Req.		Req Mon MO AVG		Req Mon DAILY MX	03 - MGD										99/99 - Continuous	RC - Recorder (auto)
					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			=	0.1	62 - deg C/hr								99/99 - Continuous	CA - CALCTD		
					Permit Req.																
					Value NODI																
TRP3B	IC25 Static Renewal 7 Day Chronic Ceriodaphnia dubia	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: 2023-07-12 14:59 (Time Zone: -05:00)

**Report Last Signed By**

User: TMCMUTUA  
Name: Tony McMutuary  
E-Mail: tmcmutuary@tva.gov  
Date/Time: 2023-07-13 15:28 (Time Zone: -05:00)

## DMR Copy of Record

<b>Permit</b>	
<b>Permit #:</b> TN0026450	<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> 103 Internal Outfall	<b>Discharge:</b> 103-G (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> From 06/01/23 to 06/30/23	<b>DMR Due Date:</b> 07/15/23
<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>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
00400	pH	IM - Internal Monitoring Point	0	--	Sample	=	6.6				=	6.6				12 - SU	01/30 - Monthly	GR - GRAB	
					Permit Req.	>=	6.0 MINIMUM				<=	9.0 MAXIMUM		12 - SU	01/30 - Monthly	GR - GRAB			
					Value NODI														
00530	Solids, total suspended	IM - Internal Monitoring Point	0	--	Sample						=	12.0			=	12.0	19 - mg/L	01/30 - Monthly	GR - GRAB
					Permit Req.						<=	30.0 MO AVG		<=	100.0 DAILY MX	19 - mg/L	01/30 - Monthly	GR - GRAB	
					Value NODI														
00556	Oil & Grease	IM - Internal Monitoring Point	0	--	Sample						<	4.9			<	4.9	19 - mg/L	01/30 - Monthly	GR - GRAB
					Permit Req.						<=	15.0 MO AVG		<=	20.0 DAILY MX	19 - mg/L	01/30 - Monthly	GR - GRAB	
					Value NODI														
50050	Flow, in conduit or thru treatment plant	IM - Internal Monitoring Point	0	--	Sample	=	0.906	=	1.073	03 - MGD								01/30 - Monthly	IN - INSTAN
					Permit Req.		Req Mon MO AVG		Req Mon DAILY MX	03 - MGD								01/30 - Monthly	IN - INSTAN
					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: tmarkum@tva.gov  
Date/Time: 2023-07-12 14:35 (Time Zone: -05:00)

**Report Last Signed By**

User: TMCMUTUA  
Name: Tony McMutuary  
E-Mail: tmcmutuary@tva.gov  
Date/Time: 2023-07-13 15:28 (Time Zone: -05:00)

## DMR Copy of Record

### Permit

<b>Permit #:</b>	<b>TN0026450</b>	<b>Permittee:</b>	Tennessee Valley Authority (TVA)	<b>Facility:</b>	TVA SEQUOYAH NUCLEAR PLANT (SQN)
<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>	<b>107-G</b> (no description)		

### Report Dates & Status

<b>Monitoring Period:</b>	<b>From 06/01/23 to 06/30/23</b>	<b>DMR Due Date:</b>	<b>07/15/23</b>	<b>Status:</b>	<b>NetDMR Validated</b>
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### Considerations for Form Completion

Metal Cleaning Waste Pond discharge. No monitoring required for stormwater decanting. Daily monitoring required only during dewatering events.

### Principal Executive Officer

<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
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			

### 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: 2023-07-13 09:16 (Time Zone: -05:00)

### Report Last Signed By

User: TMCMUTUA  
 Name: Tony McMutuary  
 E-Mail: tmcmutuary@tva.gov  
 Date/Time: 2023-07-13 15:28 (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>	110 External Outfall	<b>Discharge:</b>	<b>110-G</b> (no description)
<b>Facility:</b>		<b>Facility Location:</b>	TVA SEQUOYAH NUCLEAR PLANT (SQN) SEQUOYAH ACCESS ROAD SODDY DAISY SODDY DAISY, TN 37379

**Report Dates & Status**

<b>Monitoring Period:</b>	<b>From 06/01/23 to 06/30/23</b>	<b>DMR Due Date:</b>	<b>07/15/23</b>	<b>Status:</b>	<b>NetDMR Validated</b>
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**Considerations for Form Completion**

Outfall 110 is closed. Only active in the event the plant goes into closed mode.

**Principal Executive Officer**

<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
00010	Temperature, water deg. centigrade	1 - Effluent Gross	0	--	Sample Permit Req.				Req Mon DAILY MX	04 - deg C							99/99 - Continuous	CA - CALCTD
					Value NODI													
00010	Temperature, water deg. centigrade	Z - Instream Monitoring	0	--	Sample Permit Req.								<=	30.5 DAILY MX	04 - deg C		99/99 - Continuous	CA - CALCTD
					Value NODI													
00016	Temp. diff. between samp. & upstrm deg. C	1 - Effluent Gross	1	--	Sample Permit Req.								<=	3.0 DAILY MX	04 - deg C		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.					<=	0.027 MO AVG		<=	0.047 DAILY MX	19 - mg/L		05/WK - Five Per Week	GR - GRAB
					Value NODI													
82234	Temperature rate of change deg. C/hr	Z - Instream Monitoring	0	--	Sample Permit Req.								<=	30.5 DAILY MX	62 - deg C/hr		99/99 - Continuous	CA - CALCTD
					Value NODI													
TRP3B	IC25 Static Renewal 7 Day Chronic Ceriodaphnia dubia	1 - Effluent Gross	0	--	Sample Permit Req.					>=	69.0 MINIMUM				23 - %		01/30 - Monthly	GR - GRAB
					Value NODI													
TRP6C	IC25 Static Renewal 7 Day Chronic Chrpimephales	1 - Effluent Gross	0	--	Sample Permit Req.					>=	69.0 MINIMUM				23 - %		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**

On 6/27/23, a sheen was observed on the intake channel due to a hydraulic line leak and aeration compressor failure. A notification was made for this event to the National Response Center and Tennessee Emergency Management Agency as required by 40 CFR 110.6. This was not a discharge from a permitted outfall but was closest to Outfall 110.

**Attachments**

No attachments.

**Report Last Saved By**

**Tennessee Valley Authority (TVA)**

User: TRMARKUM  
Name: Travis Markum  
E-Mail: trmarkum@tva.gov  
Date/Time: 2023-07-12 15:19 (Time Zone: -05:00)

**Report Last Signed By**

User: TMCMUTUA  
Name: Tony McMutuary  
E-Mail: tmcmutuary@tva.gov  
Date/Time: 2023-07-13 15:28 (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 06/01/23 to 06/30/23</b>	<b>DMR Due Date:</b>	<b>07/15/23</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: 2023-07-12 14:24 (Time Zone: -05:00)

**Report Last Signed By**

User: TMCMUTUA  
Name: Tony McMutuary  
E-Mail: tmcmutuary@tva.gov  
Date/Time: 2023-07-13 15:28 (Time Zone: -05:00)