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

August 24, 2021

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

Subject: **Sequoyah Nuclear Plant, Discharge Monitoring Report (DMR), July 2021**

Attached is the July 2021 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, 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 07/01/21 to 07/31/21	<b>DMR Due Date:</b> 08/15/21	<b>Status:</b> NetDMR Validated
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**Considerations for Form Completion**  
Primary discharge from Diffuser Pond.

<b>Principal Executive Officer</b>		<b>Title:</b> Vice President	<b>Telephone:</b> 423-843-7001
<b>First Name:</b> Thomas	<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								=	42.2		04 - deg C	99/99 - Continuous	RC - Recorder (auto)			
					Permit Req.															99/99 - Continuous	RC - Recorder (auto)
					Value NODI																
00010	Temperature, water deg. centigrade	Z - Instream Monitoring	0	--	Sample								=	29.6		04 - deg C	99/99 - Continuous	CA - CALCTD			
					Permit Req.															99/99 - Continuous	CA - CALCTD
					Value NODI																
00016	Temp. diff. between samp. & upstrm deg. C	1 - Effluent Gross	1	--	Sample								=	2.7		04 - deg C	99/99 - Continuous	CA - CALCTD			
					Permit Req.															99/99 - Continuous	CA - CALCTD
					Value NODI																
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample	=	1749.6	=	1773.7	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.						<=	0.027 MO AVG				<=	0.047 DAILY MX	19 - mg/L	01/07 - Weekly	GR - GRAB	
					Value NODI																
82234	Temperature rate of change deg. C/hr	Z - Instream Monitoring	0	--	Sample			=	1.1	62 - deg C/hr								99/99 - Continuous	CA - CALCTD		
					Permit Req.															99/99 - Continuous	CA - CALCTD
					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: 2021-08-12 08:38 (Time Zone: -05:00)

**Report Last Signed By**

User: TMCMUTUA  
Name: Tony McMutuary  
E-Mail: tmcmutuary@tva.gov  
Date/Time: 2021-08-12 13:14 (Time Zone: -05:00)

## DMR Copy of Record

Permit																						
Permit #:	TN0026450	Permittee:	Tennessee Valley Authority (TVA)							Facility:	TVA SEQUOYAH NUCLEAR PLANT (SQN)											
Major:	Yes	Permittee Address:	Sequoyah Access Road, PO Box 2000 Soddy Daisy, TN 37379							Facility Location:	SEQUOYAH ACCESS ROAD SODDY DAISY, TN 37379											
Permitted Feature:	103 Internal Outfall	Discharge:	103-G (no description)																			
Report Dates & Status																						
Monitoring Period:	From 07/01/21 to 07/31/21		DMR Due Date:	08/15/21						Status:	NetDMR Validated											
Considerations for Form Completion																						
Internal Monitoring Point for various flows from Low Volume Waste Treatment Pond to Diffuser Pond, which eventually discharges through Outfall 101.																						
Principal Executive Officer																						
First Name:	Thomas		Title:	Vice President							Telephone:	423-843-7001										
Last Name:	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			
00400	pH	IM - Internal Monitoring Point	0	--	Sample						=	7.6			=	7.6	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									=	11.3	=	11.3	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									<	5.9	<	5.9	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	=	1.0	=	1.0	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																						
Attachments																						
No attachments.																						
Report Last Saved By																						
Tennessee Valley Authority (TVA)																						
User:	TRMARKUM																					
Name:	Travis Markum																					
E-Mail:	trmarkum@tva.gov																					
Date/Time:	2021-08-12 08:47 (Time Zone: -05:00)																					
Report Last Signed By																						
User:	TMCMUTUA																					
Name:	Tony McMutuary																					
E-Mail:	tmcmutuary@tva.gov																					
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Permit																					
Permit #:	TN0026450			Permittee:	Tennessee Valley Authority (TVA)				Facility:	TVA SEQUOYAH NUCLEAR PLANT (SQN)											
Major:	Yes			Permittee Address:	Sequoyah Access Road, PO Box 2000 Soddy Daisy, TN 37379				Facility Location:	SEQUOYAH ACCESS ROAD SODDY DAISY, TN 37379											
Permitted Feature:	107 Internal Outfall			Discharge:	107-G (no description)																
Report Dates & Status																					
Monitoring Period:	From 07/01/21 to 07/31/21			DMR Due Date:	08/15/21				Status:	NetDMR Validated											
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																					
First Name:	Thomas			Title:	Vice President				Telephone:	423-843-7001											
Last Name:	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				
00400	pH	IM - Internal Monitoring Point	0	--	Sample						>=	6.0 MINIMUM			<=	9.0 MAXIMUM	12 - SU		01/01 - Daily	GR - GRAB	
					Permit Req.																
					Value NODI							C - No Discharge				C - No Discharge					
00530	Solids, total suspended	IM - Internal Monitoring Point	0	--	Sample						<=	30.0 MO AVG			<=	100.0 DAILY MX	19 - mg/L		01/01 - Daily	CP - COMPOS	
					Permit Req.																
					Value NODI							C - No Discharge				C - No Discharge					
00556	Oil & Grease	IM - Internal Monitoring Point	0	--	Sample						<=	15.0 MO AVG			<=	20.0 DAILY MX	19 - mg/L		01/01 - Daily	GR - GRAB	
					Permit Req.																
					Value NODI							C - No Discharge				C - No Discharge					
01042	Copper, total [as Cu]	IM - Internal Monitoring Point	0	--	Sample						<=	1.0 MO AVG			<=	1.0 DAILY MX	19 - mg/L		01/01 - Daily	CP - COMPOS	
					Permit Req.																
					Value NODI							C - No Discharge				C - No Discharge					
01045	Iron, total [as Fe]	IM - Internal Monitoring Point	0	--	Sample						<=	1.0 MO AVG			<=	1.0 DAILY MX	19 - mg/L		01/01 - Daily	CP - COMPOS	
					Permit Req.																
					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.																					
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No errors.																					
Comments																					
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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, 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 07/01/21 to 07/31/21		<b>DMR Due Date:</b> 08/15/21		<b>Status:</b> NetDMR Validated	
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**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>Title:</b> Vice President		<b>Telephone:</b> 423-843-7001	
<b>First Name:</b> Thomas	<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. Value NODI												99/99 - Continuous	CA - CALCTD
00010	Temperature, water deg. centigrade	Z - Instream Monitoring	0	--	Sample Permit Req. Value NODI								<=	30.5 DAILY MX	04 - deg C		99/99 - Continuous	CA - CALCTD
00016	Temp. diff. between samp. & upstrm deg. C	1 - Effluent Gross	1	--	Sample Permit Req. Value NODI								<=	3.0 DAILY MX	04 - deg C		99/99 - Continuous	CA - CALCTD
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI	Req Mon MO AVG		Req Mon DAILY MX	03 - MGD								99/99 - Continuous	RC - Recorder (auto)
50060	Chlorine, total residual	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI					<=	0.027 MO AVG		<=	0.047 DAILY MX	19 - mg/L		05/WK - Five Per Week	GR - GRAB
82234	Temperature rate of change deg. C/hr	Z - Instream Monitoring	0	--	Sample Permit Req. Value NODI								<=	30.5 DAILY MX	62 - deg C/hr		99/99 - Continuous	CA - CALCTD
TRP3B	IC25 Static Renewal 7 Day Chronic Chrcceriodaphnia	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI					>=	69.0 MINIMUM				23 - %		01/30 - Monthly	GR - GRAB
TRP6C	IC25 Static Renewal 7 Day Chronic Chrpimephales	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI					>=	69.0 MINIMUM				23 - %		01/30 - Monthly	GR - GRAB

**Submission Note**  
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**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: 2021-08-12 08:19 (Time Zone: -05:00)

*Report Last Signed By*

User:	TMCMUTUA
Name:	Tony McMutuary
E-Mail:	tmcmutuary@tva.gov
Date/Time:	2021-08-12 13:14 (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, TN 37379		

<b>Report Dates &amp; Status</b>			
<b>Monitoring Period:</b>	<b>From 07/01/21 to 07/31/21</b>	<b>DMR Due Date:</b>	<b>08/15/21</b>
<b>Status:</b>	<b>NetDMR Validated</b>		

**Considerations for Form Completion**

<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

**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
00300	Oxygen, dissolved [DO]	1 - Effluent Gross	0	--	Sample												02/07 - Twice Every Week	GR - GRAB
					Permit Req.						>=	2.0 MINIMUM				19 - mg/L		
					Value NODI							C - No Discharge						
00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample											02/07 - Twice Every Week	GR - GRAB	
					Permit Req.								<=	100.0 DAILY MX	19 - mg/L			
					Value NODI							C - No Discharge						
00545	Solids, settleable	1 - Effluent Gross	0	--	Sample											01/30 - Monthly	GR - GRAB	
					Permit Req.								<=	1.0 DAILY MX	25 - mL/L			
					Value NODI							C - No Discharge						
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample											01/BA - Once Per Batch	ES - ESTIMA	
					Permit Req.		Req Mon MO AVG		Req Mon DAILY MX	03 - MGD								
					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: trmarkum@tva.gov  
Date/Time: 2021-08-12 08:18 (Time Zone: -05:00)

**Report Last Signed By**

User: TMCMUTUA  
Name: Tony McMutuary  
E-Mail: tmcmutuary@tva.gov  
Date/Time: 2021-08-12 13:14 (Time Zone: -05:00)