



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

December 14, 2021

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

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

Attached is the November 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

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

Report Dates & Status			
Monitoring Period:	From 11/01/21 to 11/30/21	DMR Due Date:	12/15/21
Status:	NetDMR Validated		

Considerations for Form Completion
Primary discharge from Diffuser Pond.

Principal Executive Officer			
First Name:	Thomas	Title:	Vice President
Last Name:	Marshall	Telephone:	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	Units				
00010	Temperature, water deg. centigrade	1 - Effluent Gross	0	--	Sample								=	31.8	04 - deg C	99/99 - Continuous	RC - Recorder (auto)						
					Permit Req.												Req Mon DAILY MX	04 - deg C	RC - Recorder (auto)				
					Value NODI																		
00010	Temperature, water deg. centigrade	Z - Instream Monitoring	0	--	Sample								=	18.8	04 - deg C	99/99 - Continuous	CA - CALCTD						
					Permit Req.												<=	30.5 DAILY MX	04 - deg C	CA - CALCTD			
					Value NODI																		
00016	Temp. diff. between samp. & upstrm deg. C	1 - Effluent Gross	1	--	Sample											99/99 - Continuous	CA - CALCTD						
					Permit Req.												<=	3.0 DAILY MX	04 - deg C	CA - CALCTD			
					Value NODI														9 - Conditional Monitoring - Not Required This Period				
00016	Temp. diff. between samp. & upstrm deg. C	1 - Effluent Gross	2	--	Sample								=	2.2	04 - deg C	99/99 - Continuous	CA - CALCTD						
					Permit Req.												<=	5.0 DAILY MX	04 - deg C	CA - CALCTD			
					Value NODI																		
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample	=	1697.8	=	1752.0	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											01/07 - Weekly	GR - GRAB						
					Permit Req.														<=	0.027 MO AVG	19 - mg/L	GR - GRAB	
					Value NODI															B - Below Detection Limit/No Detection	B - Below Detection Limit/No Detection		
82234	Temperature rate of change deg. C/hr	Z - Instream Monitoring	0	--	Sample			=	0.2	62 - deg C/hr						99/99 - Continuous	CA - CALCTD						
					Permit Req.				<=	2.0 DAILY MX	62 - deg C/hr								99/99 - Continuous	CA - CALCTD			
					Value NODI																		
TRP3B	IC25 Static Renewal 7 Day Chronic Chrceriodaphnia	1 - Effluent Gross	0	--	Sample											01/30 - Monthly	CP - COMPOS						
					Permit Req.															>	69.0 MINIMUM	23 - %	CP - COMPOS
					Value NODI																9 - Conditional Monitoring - Not Required This Period		
TRP6C	IC25 Static Renewal 7 Day Chronic Chrpimephales	1 - Effluent Gross	0	--	Sample											01/30 - Monthly	CP - COMPOS						
					Permit Req.															>	69.0 MINIMUM	23 - %	CP - COMPOS
					Value NODI																9 - Conditional Monitoring - Not Required This Period		

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: 2021-12-01 13:04 (Time Zone: -06:00)

Report Last Signed By

User: TBMARSHALL@TVA.GOV
Name: Thomas Marshall
E-Mail: tbmarshall@tva.gov
Date/Time: 2021-12-14 12:10 (Time Zone: -06:00)

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 11/01/21 to 11/30/21	DMR Due Date:	12/15/21	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						=	7.1			=	7.1	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							=	6.2		=	6.2	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		<	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	=	1.85	=	1.85	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:	2021-12-01 13:06 (Time Zone: -06:00)																		
Report Last Signed By																			
User:	TBMARSHALL@TVA.GOV																		
Name:	Thomas Marshall																		
E-Mail:	tbmarshall@tva.gov																		
Date/Time:	2021-12-14 12:12 (Time Zone: -06:00)																		

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:	107 Internal Outfall			Discharge:	107-G (no description)															
Report Dates & Status																				
Monitoring Period:	From 11/01/21 to 11/30/21			DMR Due Date:	12/15/21				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 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:	2021-12-01 13:06 (Time Zone: -06:00)																			
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User:	TBMARSHALL@TVA.GOV																			
Name:	Thomas Marshall																			
E-Mail:	tbmarshall@tva.gov																			
Date/Time:	2021-12-14 12:12 (Time Zone: -06:00)																			

DMR Copy of Record

Permit		Permittee: Tennessee Valley Authority (TVA)		Facility: TVA SEQUOYAH NUCLEAR PLANT (SQN)	
Permit #: TN0026450	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: 110 External Outfall	Discharge: 110-G (no description)				

Report Dates & Status		Monitoring Period: From 11/01/21 to 11/30/21		DMR Due Date: 12/15/21		Status: 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.

Principal Executive Officer		Title: Vice President		Telephone: 423-843-7001	
First Name: Thomas	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
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												99/99 - Continuous	CA - CALCTD
00016	Temp. diff. between samp. & upstrm deg. C	1 - Effluent Gross	2	--	Sample Permit Req. Value NODI												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)
							C - No Discharge		C - No Discharge									
50060	Chlorine, total residual	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI												05/WK - Five Per Week	GR - GRAB
82234	Temperature rate of change deg. C/hr	Z - Instream Monitoring	0	--	Sample Permit Req. Value NODI												99/99 - Continuous	CA - CALCTD
TRP3B	IC25 Static Renewal 7 Day Chronic Chrcceriodaphnia	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI												01/30 - Monthly	GR - GRAB
TRP6C	IC25 Static Renewal 7 Day Chronic Chrpimephales	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI												01/30 - Monthly	GR - GRAB

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: 2021-12-01 13:07 (Time Zone: -06:00)

Report Last Signed By

User: TBMARSHALL@TVA.GOV
Name: Thomas Marshall
E-Mail: tbmarshall@tva.gov
Date/Time: 2021-12-14 12:13 (Time Zone: -06:00)

DMR Copy of Record

Permit			
Permit #:	TN0026450	Permittee:	Tennessee Valley Authority (TVA)
Major:	Yes	Permittee Address:	Sequoyah Access Road, PO Box 2000 Soddy Daisy, TN 37379
Permitted Feature:	118 External Outfall	Discharge:	118-G (no description)
Facility:	TVA SEQUOYAH NUCLEAR PLANT (SQN)		
Facility Location:	SEQUOYAH ACCESS ROAD SODDY DAISY, TN 37379		

Report Dates & Status			
Monitoring Period:	From 11/01/21 to 11/30/21	DMR Due Date:	12/15/21
Status:	NetDMR Validated		

Considerations for Form Completion

Principal Executive Officer			
First Name:	Thomas	Title:	Vice President
Last Name:	Marshall	Telephone:	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: 2021-12-01 13:08 (Time Zone: -06:00)

Report Last Signed By

User: TBMARSHALL@TVA.GOV
Name: Thomas Marshall
E-Mail: tbmarshall@tva.gov
Date/Time: 2021-12-14 12:13 (Time Zone: -06:00)