



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

January 13, 2022

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

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

Attached is the December 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

TRP6C	IC25 Static Renewal 7 Day Chronic Chrpimephales	1 - Effluent Gross	0	--	Sample Permit Req.	>	69.0 MINIMUM						23 - %	01/30 - Monthly	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

Name	Type	Size
BCTP_Annual_Report_2021.pdf	pdf	66554.0

Report Last Saved By

Tennessee Valley Authority (TVA)

User: TRMARKUM
 Name: Travis Markum
 E-Mail: trmarkum@tva.gov
 Date/Time: 2022-01-10 16:21 (Time Zone: -06:00)

Report Last Signed By

User: TMCMUTUA
 Name: Tony McMutuary
 E-Mail: tmcmutuary@tva.gov
 Date/Time: 2022-01-12 08:20 (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:	103 Internal Outfall	Discharge:	103-G (no description)
Facility:	TVA SEQUOYAH NUCLEAR PLANT (SQN)		
Facility Location:	SEQUOYAH ACCESS ROAD SODDY DAISY, TN 37379		

Report Dates & Status			
Monitoring Period:	From 12/01/21 to 12/31/21	DMR Due Date:	01/15/22
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
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		
00400	pH	IM - Internal Monitoring Point	0	--	Sample						=	6.9			=	6.9	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									=	6.0	=	6.0	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									<	5.1	<	5.1	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	=	1.66	=	1.66	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: trmarkum@tva.gov
Date/Time: 2022-01-10 16:24 (Time Zone: -06:00)

Report Last Signed By
User: TMCMUTUA
Name: Tony McMutuary
E-Mail: tmcmutuary@tva.gov
Date/Time: 2022-01-12 08:20 (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 12/01/21 to 12/31/21				DMR Due Date:				01/15/22				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	Sample Permit Req.	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																					
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Edit Check Errors																					
No errors.																					
Comments																					
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Permit			
Permit #:	TN0026450	Permittee:	Tennessee Valley Authority (TVA)
Major:	Yes	Permittee Address:	Sequoyah Access Road, PO Box 2000 Soddy Daisy, TN 37379
Permitted Feature:	110 External Outfall	Discharge:	110-G (no description)
Facility:	TVA SEQUOYAH NUCLEAR PLANT (SQN)		
Facility Location:	SEQUOYAH ACCESS ROAD SODDY DAISY, TN 37379		

Report Dates & Status			
Monitoring Period:	From 12/01/21 to 12/31/21	DMR Due Date:	01/15/22
Status:	NetDMR Validated		

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

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														99/99 - Continuous	CA - CALCTD	
					Permit Req.				Req Mon DAILY MX	04 - deg C											
					Value NODI				C - No Discharge												
00010	Temperature, water deg. centigrade	Z - Instream Monitoring	0	--	Sample													99/99 - Continuous	CA - CALCTD		
					Permit Req.								<=	30.5 DAILY MX	04 - deg C						
					Value NODI												C - No Discharge				
00016	Temp. diff. between samp. & upstrm deg. C	1 - Effluent Gross	2	--	Sample													99/99 - Continuous	CA - CALCTD		
					Permit Req.												<=			5.0 DAILY MX	04 - deg C
					Value NODI															C - No Discharge	
39516	Polychlorinated biphenyls [PCBs]	1 - Effluent Gross	0	--	Sample													01/EP - Once Every Permit Cycle	GR - GRAB		
					Permit Req.												<=			0.0 DAILY MX	20 - ppm
					Value NODI															C - No Discharge	
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample													99/99 - Continuous	RC - Recorder (auto)		
					Permit Req.		Req Mon MO AVG		Req Mon DAILY MX	03 - MGD											
					Value NODI		C - No Discharge		C - No Discharge												
50060	Chlorine, total residual	1 - Effluent Gross	0	--	Sample													05/WK - Five Per Week	GR - GRAB		
					Permit Req.								<=	0.027 MO AVG			<=			0.047 DAILY MX	19 - mg/L
					Value NODI												C - No Discharge				
82234	Temperature rate of change deg. C/hr	Z - Instream Monitoring	0	--	Sample													99/99 - Continuous	CA - CALCTD		
					Permit Req.												<=			30.5 DAILY MX	62 - deg C/hr
					Value NODI															C - No Discharge	
TRP3B	IC25 Static Renewal 7 Day Chronic Chrceriodaphnia	1 - Effluent Gross	0	--	Sample													01/30 - Monthly	GR - GRAB		
					Permit Req.												>=			69.0 MINIMUM	23 - %
					Value NODI															C - No Discharge	
TRP6C	IC25 Static Renewal 7 Day Chronic Chrpimephales	1 - Effluent Gross	0	--	Sample													01/30 - Monthly	GR - GRAB		
					Permit Req.												>=			69.0 MINIMUM	23 - %
					Value NODI															C - No Discharge	

Submission Note

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Edit Check Errors

No errors.

Comments

Attachments

No attachments.

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Tennessee Valley Authority (TVA)

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Date/Time: 2022-01-10 16:25 (Time Zone: -06:00)

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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:		118 External Outfall			Discharge:		118-G (no description)														
Report Dates & Status																					
Monitoring Period:		From 12/01/21 to 12/31/21			DMR Due Date:		01/15/22					Status:		NetDMR Validated							
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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		
00300	Oxygen, dissolved [DO]	1 - Effluent Gross	0	--	Sample																
					Permit Req.						>=	2.0 MINIMUM							19 - mg/L		
					Value NODI							C - No Discharge									
00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample																
					Permit Req.									<=	100.0 DAILY MX				19 - mg/L		
					Value NODI										C - No Discharge						
00545	Solids, settleable	1 - Effluent Gross	0	--	Sample																
					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																
					Permit Req.		Req Mon MO AVG		Req Mon DAILY MX	03 - MGD											
					Value NODI		C - No Discharge		C - No Discharge										01/BA - Once Per Batch		
																			ES - ESTIMA		
Submission Note																					
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