



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

November 15, 2021

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

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

Attached is the October 2021 DMR for Sequoyah Nuclear Plant.

Respectfully,

A handwritten signature in black ink, appearing to read 'T.R. Markum', is written over a light blue horizontal line.

Travis R. Markum
Environmental Scientist

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: 101 External Outfall	Discharge: 101-G (no description)				

Report Dates & Status		Monitoring Period: From 10/01/21 to 10/31/21	DMR Due Date: 11/15/21	Status: NetDMR Validated
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Considerations for Form Completion
Primary discharge from Diffuser Pond.

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	Units		
00010	Temperature, water deg. centigrade	1 - Effluent Gross	0	--	Sample								=	37.7		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								=	25.4		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								=	1.4		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	=	1024.7	=	1742.8	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							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			=	0.1	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: 2021-11-09 10:13 (Time Zone: -06:00)

Report Last Signed By

User: TMCMUTUA
Name: Tony McMutuary
E-Mail: tmcmutuary@tva.gov
Date/Time: 2021-11-12 10:19 (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 10/01/21 to 10/31/21	DMR Due Date:	11/15/21	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						=	6.4			=	6.4	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							=	8.0	=	8.0	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							<	4.8	<	4.8	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	=	1.757	=	1.757	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:	2021-11-09 10:14 (Time Zone: -06:00)																		
Report Last Signed By																			
User:	TMCMUTUA																		
Name:	Tony McMutuary																		
E-Mail:	tmcmutuary@tva.gov																		
Date/Time:	2021-11-12 10:19 (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 10/01/21 to 10/31/21			DMR Due Date:				11/15/21				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	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
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:		2021-11-09 10:08 (Time Zone: -06:00)																	
Report Last Signed By																			
User:		TMCMUTUA																	
Name:		Tony McMutuary																	
E-Mail:		tmcmutuary@tva.gov																	
Date/Time:		2021-11-12 10:19 (Time Zone: -06:00)																	

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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		DMR Due Date: 11/15/21		Status: NetDMR Validated	
Monitoring Period: From 10/01/21 to 10/31/21					

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												99/99 - Continuous	CA - CALCTD
					Permit Req.													
					Value NODI													
00010	Temperature, water deg. centigrade	Z - Instream Monitoring	0	--	Sample												99/99 - Continuous	CA - CALCTD
					Permit Req.													
					Value NODI													
00016	Temp. diff. between samp. & upstrm deg. C	1 - Effluent Gross	1	--	Sample												99/99 - Continuous	CA - CALCTD
					Permit Req.													
					Value NODI													
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.													
					Value NODI													
82234	Temperature rate of change deg. C/hr	Z - Instream Monitoring	0	--	Sample												99/99 - Continuous	CA - CALCTD
					Permit Req.													
					Value NODI													
TRP3B	IC25 Static Renewal 7 Day Chronic Chrcceriodaphnia	1 - Effluent Gross	0	--	Sample												01/30 - Monthly	GR - GRAB
					Permit Req.													
					Value NODI													
TRP6C	IC25 Static Renewal 7 Day Chronic Chrpimephales	1 - Effluent Gross	0	--	Sample												01/30 - Monthly	GR - GRAB
					Permit Req.													
					Value NODI													

Submission Note
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Edit Check Errors
No errors.

Comments

Attachments
No attachments.

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Name: Tony McMutuary
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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:	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 10/01/21 to 10/31/21	DMR Due Date:	11/15/21
Status:	NetDMR Validated		

Considerations for Form Completion			
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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		
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																
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																
00545	Solids, settleable	1 - Effluent Gross	0	--	Sample																
					Permit Req.										<=	1.0 DAILY MX	25 - mL/L	01/30 - Monthly	GR - GRAB		
					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										01/BA - Once Per Batch	ES - ESTIMA
					Value NODI		C - No Discharge		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)

User: TRMARKUM
Name: Travis Markum
E-Mail: trmarkum@tva.gov
Date/Time: 2021-11-09 10:10 (Time Zone: -06:00)

Report Last Signed By

User: TMCMUTUA
Name: Tony McMutuary
E-Mail: tmcmutuary@tva.gov
Date/Time: 2021-11-12 10:19 (Time Zone: -06:00)