



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

June 14, 2023

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

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

Attached is the May 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

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 SODDY DAISY, TN 37379		

Report Dates & Status

Monitoring Period:	From 05/01/23 to 05/31/23	DMR Due Date:	06/15/23	Status:	NetDMR Validated
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Considerations for Form Completion

Primary discharge from Diffuser Pond.

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								
00010	Temperature, water deg. centigrade	1 - Effluent Gross	0	--	Sample												=	35.7	04 - deg C	99/99 - Continuous	RC - Recorder (auto)			
					Permit Req.																			
					Value NODI																			
00010	Temperature, water deg. centigrade	Z - Instream Monitoring	0	--	Sample													=	25.2	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													=	1.4	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	=	1752.2	=	1776.7	03 - MGD														
					Permit Req.		Req Mon MO AVG		Req Mon DAILY MX	03 - MGD														
					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			=	0.2	62 - deg C/hr														
					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: 2023-06-08 16:56 (Time Zone: -05:00)

Report Last Signed By

User: TMCMUTUA
Name: Tony McMutuary
E-Mail: tmcmutuary@tva.gov
Date/Time: 2023-06-12 10:14 (Time Zone: -05:00)

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 SODDY DAISY, TN 37379	
Report Dates & Status	
Monitoring Period: From 05/01/23 to 05/31/23	DMR Due Date: 06/15/23
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	=	6.6				=	6.6				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						=	9.7			=	9.7	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	=	1.044	=	1.044	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: tmarkum@tva.gov
Date/Time: 2023-06-08 16:58 (Time Zone: -05:00)

Report Last Signed By

User: TMCMUTUA
Name: Tony McMutuary
E-Mail: tmcmutuary@tva.gov
Date/Time: 2023-06-12 10:14 (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 SODDY DAISY, TN 37379
Permitted Feature:	107 Internal Outfall	Discharge:	107-G (no description)		

Report Dates & Status

Monitoring Period:	From 05/01/23 to 05/31/23	DMR Due Date:	06/15/23	Status:	NetDMR Validated
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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

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
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

Attachments

No attachments.

Report Last Saved By

Tennessee Valley Authority (TVA)

User: TRMARKUM
 Name: Travis Markum
 E-Mail: tmarkum@tva.gov
 Date/Time: 2023-06-08 16:47 (Time Zone: -05:00)

Report Last Signed By

User: TMCMUTUA
 Name: Tony McMutuary
 E-Mail: tmcmutuary@tva.gov
 Date/Time: 2023-06-12 10:14 (Time Zone: -05:00)

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 SODDY DAISY, TN 37379		
Permitted Feature: 110 External Outfall	Discharge: 110-G (no description)				

Report Dates & Status

Monitoring Period: From 05/01/23 to 05/31/23	DMR Due Date: 06/15/23	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

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
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			C - No Discharge										
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											C - No Discharge		
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											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							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											C - No Discharge		
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											C - No Discharge		
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											C - No Discharge		
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											C - No Discharge		

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: 2023-06-08 16:45 (Time Zone: -05:00)

Report Last Signed By

User: TMCMUTUA
Name: Tony McMutuary
E-Mail: tmcmutuary@tva.gov
Date/Time: 2023-06-12 10:14 (Time Zone: -05:00)

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 SODDY DAISY, TN 37379			
Report Dates & Status			
Monitoring Period:	From 05/01/23 to 05/31/23	DMR Due Date:	06/15/23
		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	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
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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: tmarkum@tva.gov
Date/Time: 2023-06-08 16:44 (Time Zone: -05:00)

Report Last Signed By

User: TCMUTUA
Name: Tony McMutuary
E-Mail: tmcmutuary@tva.gov
Date/Time: 2023-06-12 10:14 (Time Zone: -05:00)