



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

April 27, 2023

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

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

Attached is the March 2023 DMR for Sequoyah Nuclear Plant.

Respectfully,

A handwritten signature in black ink, appearing to read "T.R. Markum".

Travis R. Markum
Environmental Scientist

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

Report Dates & Status

Monitoring Period:	From 03/01/23 to 03/31/23	DMR Due Date:	04/15/23	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								=	28.7		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								=	16.5		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												04 - deg C	99/99 - Continuous	CA - CALCTD							
					Permit Req.															<=	3.0 DAILY MX					
					Value NODI																9 - Conditional Monitoring - Not Required This Period					
00016	Temp. diff. between samp. & upstrm deg. C	1 - Effluent Gross	2	--	Sample												04 - deg C	99/99 - Continuous	CA - CALCTD							
					Permit Req.																<=	5.0 DAILY MX	04 - deg C			
					Value NODI																					
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample	=	1427.4	=	1718.4	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												19 - mg/L	01/07 - Weekly	GR - GRAB							
					Permit Req.																	<=	0.027 MO AVG		<=	0.047 DAILY MX
					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			=	0.6	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												23 - %	01/30 - Monthly	CP - COMPOS							
					Permit Req.																		>	69.0 MINIMUM		
					Value NODI																		9 - Conditional Monitoring - Not Required This Period			
TRP6C	IC25 Static Renewal 7 Day Chronic Chrpimephales	1 - Effluent Gross	0	--	Sample												23 - %	01/30 - Monthly	CP - COMPOS							
					Permit Req.																		>	69.0 MINIMUM		
					Value																		9 - Conditional Monitoring - Not Required			

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. Station 14 stopped reporting data on March 15. Repairs were made on March 27. The station was out of service during this time from 3/15-3/27. Per SQNs NPDES permit, Station 13 was used as the backup upstream monitoring station while Station 14 was out of service.

Attachments

No attachments.

Report Last Saved By**Tennessee Valley Authority (TVA)**

User: TRMARKUM
Name: Travis Markum
E-Mail: trmarkum@tva.gov
Date/Time: 2023-04-12 14:31 (Time Zone: -05:00)

Report Last Signed By

User: TMCMUTUA
Name: Tony McMutuary
E-Mail: tmcmutuary@tva.gov
Date/Time: 2023-04-13 09:24 (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 03/01/23 to 03/31/23	DMR Due Date: 04/15/23
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	=	6.8				=	6.8				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						=	6.0			=	6.0	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						<	4.9			<	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	=	1.073	=	1.073	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: 2023-04-12 14:31 (Time Zone: -05:00)

Report Last Signed By

User: TMCMUTUA
Name: Tony McMutuary
E-Mail: tmcmutuary@tva.gov
Date/Time: 2023-04-13 09:24 (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 03/01/23 to 03/31/23				DMR Due Date: 04/15/23				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												01/01 - Daily	GR - GRAB	
					Permit Req.					>=	6.0 MINIMUM				<=	9.0 MAXIMUM			12 - SU
					Value NODI						C - No Discharge					C - No Discharge			
00530	Solids, total suspended	IM - Internal Monitoring Point	0	--	Sample											01/01 - Daily	CP - COMPOS		
					Permit Req.					<=	30.0 MO AVG				<=			100.0 DAILY MX	19 - mg/L
					Value NODI						C - No Discharge							C - No Discharge	
00556	Oil & Grease	IM - Internal Monitoring Point	0	--	Sample											01/01 - Daily	GR - GRAB		
					Permit Req.					<=	15.0 MO AVG				<=			20.0 DAILY MX	19 - mg/L
					Value NODI						C - No Discharge							C - No Discharge	
01042	Copper, total [as Cu]	IM - Internal Monitoring Point	0	--	Sample											01/01 - Daily	CP - COMPOS		
					Permit Req.					<=	1.0 MO AVG				<=			1.0 DAILY MX	19 - mg/L
					Value NODI						C - No Discharge							C - No Discharge	
01045	Iron, total [as Fe]	IM - Internal Monitoring Point	0	--	Sample											01/01 - Daily	CP - COMPOS		
					Permit Req.					<=	1.0 MO AVG				<=			1.0 DAILY MX	19 - mg/L
					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: 2023-04-12 08:34 (Time Zone: -05:00)																			
Report Last Signed By																			
User: TMCMUTUA				Name: Tony McMutuary				E-Mail: tmcmutuary@tva.gov											
Date/Time: 2023-04-13 09:24 (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 03/01/23 to 03/31/23	DMR Due Date: 04/15/23	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.													99/99 - Continuous
					Value NODI													CA - CALCTD
00010	Temperature, water deg. centigrade	Z - Instream Monitoring	0	--	Sample													
					Permit Req.												99/99 - Continuous	
					Value NODI												CA - CALCTD	
00016	Temp. diff. between samp. & upstrm deg. C	1 - Effluent Gross	2	--	Sample													
					Permit Req.												99/99 - Continuous	
					Value NODI												CA - CALCTD	
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	
					Value NODI	C - No Discharge		C - No Discharge									RC - Recorder (auto)	
50060	Chlorine, total residual	1 - Effluent Gross	0	--	Sample													
					Permit Req.												05/WK - Five Per Week	
					Value NODI												GR - GRAB	
82234	Temperature rate of change deg. C/hr	Z - Instream Monitoring	0	--	Sample													
					Permit Req.												99/99 - Continuous	
					Value NODI												CA - CALCTD	
TRP3B	IC25 Static Renewal 7 Day Chronic Chrceriodaphnia	1 - Effluent Gross	0	--	Sample													
					Permit Req.												01/30 - Monthly	
					Value NODI												GR - GRAB	
TRP6C	IC25 Static Renewal 7 Day Chronic Chrpimephales	1 - Effluent Gross	0	--	Sample													
					Permit Req.												01/30 - Monthly	
					Value NODI												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: 2023-04-12 08:51 (Time Zone: -05:00)

Report Last Signed By

User: TCMCUTUA

Name: Tony McMutuary

E-Mail: tmcmutuary@tva.gov

Date/Time: 2023-04-13 09:24 (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: 118 External Outfall	Discharge: 118-G (no description)				

Report Dates & Status

Monitoring Period: From 03/01/23 to 03/31/23	DMR Due Date: 04/15/23	Status: NetDMR Validated
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Considerations for Form Completion

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
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.											19 - mg/L	02/07 - Twice Every Week	GR - GRAB
					Value NODI													
00545	Solids, settleable	1 - Effluent Gross	0	--	Sample Permit Req.											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	9 - Conditional Monitoring - Not Required This Period		9 - Conditional Monitoring - Not Required This Period										

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: 2023-04-12 08:52 (Time Zone: -05:00)

Report Last Signed By

User: TMCMUTUA
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 E-Mail: tmcmutuary@tva.gov

