

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

January 11, 2024

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

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

2023

Attached is the November 2023 DMR for Sequoyah Nuclear Plant.

Respectfully,

Travis R. Markum

Environmental Scientist

	9	

Permit

Major:

TN0026450 Permit #:

Yes

Permittee: Tennessee Valley Authority (TVA)

Permittee Address: 1101 Market Street, BR 2C

Chattanoga, TN 37402

Facility Location: SODDY DAISY SODDY DAISY, TN 37379

Facility:

SEQUOYAH ACCESS ROAD

TVA SEQUOYAH NUCLEAR PLANT (SQN)

Permitted Feature: 101 Discharge: 101-G External Outfall

Monthly reporting for Outfall 101 (& 101 Emergency Spillway)- Diffuser Pond

Report Dates & Status

DMR Due Date: **Monitoring Period:** From 11/01/23 to 11/30/23 12/15/23 Status: **NetDMR Validated**

Considerations for Form Completion

If a limit violation or NODI code is reported, explain in comments. If no discharge, report NODI B and include detection limit, report NODI B and include detection limit in comments. modified.

Principal Executive Officer

First Name: Thomas Vice President

Title:

Telephone: 423-843-7001

Last Name: Marshall

No Data	a Indicator (NODI)	, in the second															
Form N	ODI:																
	Parameter	Monitoring Location S	Season F	Param.				antity or Lo				Quality or Co			# of Ex.	Frequency of Analysis	Sample Type
Code	Name		"	NODI		Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1 Qualifier Va 2		er Value 3	Units LA.		
					Sample								=	34.4	04 - deg C	99/99 - Continuous	RC - Recorder (auto)
00010	Temperature, water deg. centigrade	1 - Effluent Gross	0		Permit									Reg Mon DAILY MX	04 -	99/99 - Continuous	RC - Recorder
00010	remperature, water deg. centigrade	i - Eilideilt Gloss		-	Req. Value									Red MOII DAILT MX	deg C	99/99 - Continuous	(auto)
					NODI												
					Sample								=	21.5	04 - deg C	99/99 - Continuous	CA - CALCTD
00010	Tomporative water dear continued	Z - Instream	0		Permit								<=	30.5 DAILY MX	04 -	99/99 - Continuous	CA - CALCTD
00010	Temperature, water deg. centigrade	Monitoring		-	Req.									30.3 DAILT WIX	deg C	99/99 - Continuous	CA - CALCID
					Value NODI												
					Sample								=	2.6	04 - deg C	99/99 - Continuous	CA - CALCTD
00016	Temp. diff. between samp. & upstrm deg. C	1 - Effluent Gross	2		Permit								<=	5.0 DAILY MX	04 -	99/99 - Continuous	CA - CALCTD
00016	remp. din. between samp. & upstrin deg. C	i - Eilideilt Gloss		-	Req. Value									J.O DAILT WA	deg C	99/99 - Continuous	CA - CALCID
					NODI												
					Sample												
39516	Polychlorinated biphenyls [PCBs]	1 - Effluent Gross	0		Permit Req.								<=	0.0 DAILY MX	20 - ppm	01/EP - Once Every Permit Cycle	GR - GRAB
39310	Polychiorinated biphenyls [PCBS]	i - Eilideilt Gloss		-	Value									9 - Conditional Monitoring - Not			
					NODI									Required This Period			
					Sample	=	1781.9	= -	1804.1	03 - MGD)					99/99 - Continuous	RC - Recorder (auto)
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	. <u>.</u>	Permit		Req Mon MO		Req Mon	03 - MGD)					99/99 - Continuous	RC - Recorder
00000		. Lindoin Groos			Req. Value		AVG		DAILY MX								(auto)
					NODI												
					Sample Permit										19 -		
50060	Chlorine, total residual	1 - Effluent Gross	0	-	Req.						<=	0.027 MO AVG	<=	0.047 DAILY MX	mg/L	01/07 - Weekly	GR - GRAB
					Value NODI							B - Below Detection Limit/No Detection		B - Below Detection Limit/No Detection			
					Sample			= (0.2	62 - deg						99/99 - Continuous	CA - CALCTD
		Z - Instream			Permit					C/hr							
82234	Temperature rate of change deg. C/hr	Monitoring	0	-	Req.			<= /	2.0 DAILY MX	C/hr						99/99 - Continuous	CA - CALCTD
					Value NODI												
					Sample												
	IC25 Sub-Lethal Static Renewal 7 Day Chronic				Permit Req.						>	69.0 MINIMUM			23 - %	01/30 - Monthly	CP - COMPOS
T7P3B	Ceriodaphnia dubia	1 - Effluent Gross	0	-	Value							9 - Conditional Monitoring - Not					
					NODI							Required This Period					
					Sample												
	IC25 Sub-Lethal Static Renewal 7 Day Chronic				Permit Req.						>	69.0 MINIMUM			23 - %	01/30 - Monthly	CP - COMPOS
T7P6C	1020 Cab-Lethal Clade Reliewal 7 Day Chilolile	1 - Effluent Gross	0														

Value NODI Pimephales promelas 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: 2023-12-13 13:52 (Time Zone: -06:00) Report Last Signed By User: TMCMUTUA

Name: Tony McMutuary
E-Mail: tmcmutuary@tva.gov

Date/Time: 2023-12-14 12:51 (Time Zone: -06:00)

Permit

Permit #: TN0026450

Major: Yes Permittee: Tennessee Valley Authority (TVA)

1101 Market Street, BR 2C Permittee Address:

Chattanoga, TN 37402

Facility Location:

TVA SEQUOYAH NUCLEAR PLANT (SQN)

SEQUOYAH ACCESS ROAD SODDY DAISY

SODDY DAISY, TN 37379

Permitted Feature:

103 Internal Outfall Discharge:

103-G

Monthly reporting for IMP 103- Low Volume Waste Treatment Pond

Report Dates & Status

Monitoring Period: From 11/01/23 to 11/30/23 **DMR Due Date:** 12/15/23 Status:

NetDMR Validated

Considerations for Form Completion

All parameters require data entry. If a limit violation or NODI code is reported, explain in comments. If value is below detection limit, report NODI B and include detection limit in comments.

Principal Executive Officer

First Name: Thomas

Marshall

Title: Vice President Telephone:

Facility:

423-843-7001

No Data Indicator (NODI)

Last Name:

Form NODI:

1 0111111																
	Parameter	Monitoring Location	Season #	Param. NODI			Qua	antity or Loa	ding		Quality o	r Concentration			# of Ex. Frequency of Analy	sis Sample Type
Code	Name					Qualifier 1	Value 1	Qualifier 2	Value 2	Units Qualifier	1 Value 1 Qualifier 2 \	/alue 2 Qualifier 3	3 Value 3	Units		
					Sample					=	7.3	=	7.3	12 - SU	01/30 - Monthly	GR - GRAB
00400	рН	IM - Internal Monitoring Point	0		Permit Req					>=	6.0 MINIMUM	<=	9.0 MAXIMUM	12 - SU	01/30 - Monthly	GR - GRAB
					Value NOD	ı										
					Sample					=	12.6	=	12.6	19 - mg/L	01/30 - Monthly	GR - GRAB
00530	Solids, total suspended	IM - Internal Monitoring Point	0		Permit Req					<=	30.0 MO AVG	<=	100.0 DAILY MX	(19 - mg/L	01/30 - Monthly	GR - GRAB
00000		g . e			Value NOD	ı										
					Sample					<	4.9	<	4.9	19 - mg/L	01/30 - Monthly	GR - GRAB
00552	Oil and grease, hexane extr method	IM - Internal Monitoring Point	0		Permit Req					<=	15.0 MO AVG	<=	20.0 DAILY MX	19 - mg/L	01/30 - Monthly	GR - GRAB
00002	on and groups, novalle oxid medica	g . e			Value NOD	ı										
					Sample	= 0.8	887	=	0.887	03 - MGD					01/30 - Monthly	IN - INSTAN
50050	Flow, in conduit or thru treatment plant	IM - Internal Monitoring Point	0		Permit Req	. Re	eq Mon MO AVG	3	Req Mon DAILY MX	03 - MGD					01/30 - Monthly	IN - INSTAN
00000	rion, in conduit of the treatment plant	in mona nomoning rount			Value NOD	ı										

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: 2023-12-13 13:54 (Time Zone: -06:00)

Report Last Signed By

User: TMCMUTUA Name: Tony McMutuary E-Mail: tmcmutuary@tva.gov

2023-12-14 12:51 (Time Zone: -06:00) Date/Time:

Permit

Permit #: TN0026450

Permittee: Tennessee Valley Authority (TVA)

Major: Yes

Permittee Address:

Title:

Facility: TVA SEQUOYAH NUCLEAR PLANT (SQN)
Facility Location: SEQUOYAH ACCESS ROAD

1101 Market Street, BR 2C
Chattanoga, TN 37402

Facility Location:

SODDY

SODDY DAISY SODDY DAISY, TN 37379

Permitted Feature: 107

107 Internal Outfall Discharge: 107-G

Monthly reporting for IMP 107- Metal Cleaning Waste Ponds

Report Dates & Status

Monitoring Period: From 11/01/23 to 11/30/23

DMR Due Date: 12/15/23

Status: NetDMR Validated

Considerations for Form Completion

All parameters require data entry. If a limit violation or NODI code is reported, explain in comments. If value is below detection limit, report NODI B and include detection limit in comments. If routine decanting of stormwater, report NODI 9.

Principal Executive Officer

First Name: Thomas

Last Name: Marshall

Vice President

Telephone: 423-8

423-843-7001

No Data Indicator (NODI)

Form NODI: -

	Parameter	Monitoring Location	Season #	Param. NODI			Quantity or Loading				Quality or Conce	entration			# of Ex. Frequency of Analysis	Sample Type
Code	Name					Qualifier 1	Value 1 Qualifier 2 Val	lue 2 Units	Qualifier 1	Value 1	Qualifier 2 Value 2	Qualifier 3	Value 3	Units		
00400	рН	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. Value NODI				<=	30.0 MO AVG C - No Discharge		<=	100.0 DAILY MX C - No Discharge	19 - mg/L	01/01 - Daily	CP - COMPOS
00552	Oil and grease, hexane extr method	IM - Internal Monitoring Point	0	_	Sample Permit Req. Value NODI				<=	15.0 MO AVG C - No Discharge		<=	20.0 DAILY MX C - No Discharge	19 - mg/L	01/01 - Daily	GR - GRAB
01042	Copper, total [as Cu]	IM - Internal Monitoring Point	0	-	Sample Permit Req. Value NODI				<=	1.0 MO AVG C - No Discharge		<=	1.0 DAILY MX C - No Discharge	19 - mg/L	01/01 - Daily	CP - COMPOS
01045	Iron, total [as Fe]	IM - Internal Monitoring Point	0		Sample Permit Req. Value NODI				<=	1.0 MO AVG C - No Discharge		<=	1.0 DAILY MX C - No Discharge	19 - mg/L	01/01 - Daily	CP - COMPOS

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: 2023-12-13 13:55 (Time Zone: -06:00)

Report Last Signed By

 User:
 TMCMUTUA

 Name:
 Tony McMutuary

 E-Mail:
 tmcmutuary@tva.gov

Date/Time: 2023-12-14 12:51 (Time Zone: -06:00)

Permit

TN0026450 Permit #:

Major: Yes

Tennessee Valley Authority (TVA) Permittee:

1101 Market Street, BR 2C Chattanoga, TN 37402 Permittee Address:

Facility: Facility Location: TVA SEQUOYAH NUCLEAR PLANT (SQN)

SEQUOYAH ACCESS ROAD SODDY DAISY SODDY DAISY, TN 37379

Permitted Feature:

110 External Outfall Discharge:

110-GMonthly Reporting for Outfall 110

Report Dates & Status

Monitoring Period: From 11/01/23 to 11/30/23 **DMR Due Date:** 12/15/23 Status:

NetDMR Validated

Considerations for Form Completion

All parameters require data entry. If outfall is inactive, report NODI C. If a limit violation or NODI code is reported, explain in comments. If value is below detection limit, report NODI B and include detection limit in comments.

Title:

Principal Executive Officer

First Name:

Thomas Marshall Vice President

Telephone:

423-843-7001

No Data Indicator (NODI)

Last Name:

orm N	Parameter	Monitoring Location	Season	Param.			Qı	uantity or Lo	ading				Quality o	or Concentration			# of	Frequency of Analysis	Sample Typ
Code	Name		#	NODI		Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1		Value Qualifier 2 3	Value 3	Units	Ex.		
00010	Temperature, water deg. centigrade	1 - Effluent Gross	0		Sample Permit Req. Value										Req Mon DAILY MX C - No	04 - deg C	-	99/99 - Continuous	RC - Recorder (auto)
					NODI										Discharge				
0010	Temperature, water deg. centigrade	Z - Instream	0		Sample Permit Req.									<=	30.5 DAILY MX	04 - deg C		99/99 - Continuous	CA - CALCTI
0010	Temperature, water deg. centigrade	Monitoring	U		Value NODI										C - No Discharge				
0016	Temp. diff. between samp. & upstrm deg. C	1 - Effluent Gross	2		Sample Permit Req.									<=	5.0 DAILY MX	04 - deg C		99/99 - Continuous	CA - CALCT
0010	remp. um. setween samp. a apsum deg. o	1 Ellidelik Gross			Value NODI										C - No Discharge				
19516	Polychlorinated biphenyls [PCBs]	1 - Effluent Gross	0		Sample Permit Req.									<=	0.0 DAILY MX	20 - ppm		01/EP - Once Every Permit Cycle	GR - GRAB
	, , , ,				Value NODI										C - No Discharge				
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0		Sample Permit Req.	ı	Req Mon MO AVG	.	Req Mon DAILY MX	03 - MGD								99/99 - Continuous	RC - Record
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	rion, in somant or thru troublest plant	1 Emacin Greec	J		Value NODI		C - No Discharge		C - No Discharge										
0060	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
10000	Cinomie, total residual	1 - Lilidelit Gloss	O		Value NODI							C - No Discharge			C - No Discharge				
2234	Temperature rate of change deg. C/hr	Z - Instream	0		Sample Permit Req.			<= :	2.0 DAILY MX	62 - deg C/hr								99/99 - Continuous	CA - CALCT
2234	Temperature rate of change deg. C/III	Monitoring	O		Value NODI				C - No Discharge										
7020	IC25 Sub-Lethal Static Renewal 7 Day Chronic Ceriodaphnia	1 - Effluent Gross	0		Sample Permit Req.				_		>	69.0 MINIMUM				23 - %	-	01/30 - Monthly	CP - COMP
Г7Р3В	dubia	i - Eiliueilt Gioss	0		Value NODI							C - No Discharge							
	IC25 Sub-Lethal Static Renewal 7 Day Chronic Pimephales				Sample Permit Req.						>	69.0 MINIMUM				23 - %	-	01/30 - Monthly	CP - COMPO
T7P6C	promelas	1 - Effluent Gross	0																

Value NODI 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: 2023-12-13 13:57 (Time Zone: -06:00) Report Last Signed By User: TMCMUTUA Tony McMutuary Name:

E-Mail:

Date/Time:

tmcmutuary@tva.gov

2023-12-14 12:51 (Time Zone: -06:00)

Permit #:

TN0026450

Major: Yes

Permittee: Tennessee Valley Authority (TVA)

Permittee Address: 1101 Market Street, BR 2C

Chattanoga, TN 37402

Facility: TVA SI

Facility Location:

TVA SEQUOYAH NUCLEAR PLANT (SQN)

SEQUOYAH ACCESS ROAD

SODDY DAISY SODDY DAISY, TN 37379

Permitted Feature:

118

External Outfall

Discharge: 118-G

Monthly Reporting for Internal Outfall 118

Report Dates & Status

Monitoring Period: From 11/01/23 to 11/30/23

DMR Due Date: 12/15/23

Status: NetDMR Validated

Considerations for Form Completion

All parameters require data entry. If pond is not in service, report NODI 9. If a limit violation or NODI code is reported, explain in comments. If value is below detection limit, report NODI B and include detection limit in comments.

Principal Executive Officer

First Name: Thomas

Marshall

Title: Vice President

Telephone: 423-843-7001

No Data Indicator (NODI)

Last Name:

Form NODI: --

	Parameter	Monitoring Location	Season	# Param. NOD			Qua	ntity or Load	ling				Quality or Cond	centration			# of Ex.	Frequency of Analysis	Sample Type
Code	Name					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2 Value	2 Qualifier 3	Value 3	Units			
					Sample														
00300	Oxygen, dissolved [DO]	1 - Effluent Gross	0		Permit Req.						>=	2.0 MINIMUM				19 - mg/L	(02/07 - Twice Every Week	GR - GRAB
	, , , , , , , , , , , , , , , , , , ,				Value NODI							C - No Discharge							
					Sample														
00530	30 Solids, total suspended 1 - Effluent G	1 - Effluent Gross	0		Permit Req.									<=	100.0 DAILY MX	19 - mg/L	(02/07 - Twice Every Week	GR - GRAB
					Value NODI										C - No Discharge				
					Sample														
00545	Solids, settleable	1 - Effluent Gross	0		Permit Req.									<=	1.0 DAILY MX	25 - mL/L	(01/30 - Monthly	GR - GRAB
					Value NODI										C - No Discharge				
					Sample														
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0		Permit Req.	. F	Req Mon MO AVG	F	Req Mon DAILY MX	03 - MGD)						(01/BA - Once Per Batch	ES - ESTIMA
	now, in conduct of thru treatment plant				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: 2023-12-13 13:57 (Time Zone: -06:00)

Report Last Signed By

 User:
 TMCMUTUA

 Name:
 Tony McMutuary

 E-Mail:
 tmcmutuary@tva.gov

Date/Time: 2023-12-14 12:51 (Time Zone: -06:00)