

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), August 2023

Attached is the August 2023 DMR for Sequoyah Nuclear Plant.

Respectfully,

Travis R. Markum

Environmental Scientist

Permit

TN0026450 Permit #:

Yes Major:

Tennessee Valley Authority (TVA) Permittee:

Sequoyah Access Road, PO Box 2000 Soddy Daisy, TN 37379 Permittee Address:

Facility: TVA SEQUOYAH NUCLEAR PLANT (SQN)

SEQUOYAH ACCESS ROAD SODDY DAISY SODDY DAISY, TN 37379 **Facility Location:**

Permitted Feature: 101

External Outfall

Discharge: 101-G

(no description)

Report Dates & Status

DMR Due Date: Status: **Monitoring Period:** From 08/01/23 to 08/31/23 09/15/23 **NetDMR Validated**

Considerations for Form Completion

Primary discharge from Diffuser Pond.

Principal Executive Officer

First Name: Thomas

Marshall

Title: Vice President Telephone: 423-843-7001

No Data Indicator (NODI)

Last Name:

Form N	IODI:																		
	Parameter	Monitoring Location					Qua	ntity or Lo	oading			Qua	lity or Conce	ntration			# of Frequency of	Sample Type	
Code	Name		#	NODI			Value 1	Qualifier	Value 2	Units	Qualifier	Value 1	Qualifier \			Units	Ex. Analysis		
						1		2			1		2	2	•				
					Sample									=	43.5	04 - deg C	99/99 - Continuous	RC - Recorder	
					Permit											04 - deg		RC - Recorder	
00010	Temperature, water deg. centigrade	1 - Effluent Gross	0		Req.										Req Mon DAILY MX	C	99/99 - Continuous	(auto)	
					Value														
					NODI														
					Sample									=	29.9	04 - deg C	99/99 - Continuous	CA - CALCTD	
		Z - Instream			Permit											04 - deg			
00010	Temperature, water deg. centigrade	Monitoring	0		Req.									<=	30.5 DAILY MX	C	99/99 - Continuous	CA - CALCTD	
					Value														
					NODI														
					Sample									=	2.2	04 - deg C	99/99 - Continuous	CA - CALCTD	
					Permit											04 - deg			
00016	70016 Temp. diff. between samp. & upstrm deg. C	1 - Effluent Gross	1		Req.									<=	3.0 DAILY MX	C	99/99 - Continuous	CA - CALCTD	
						Value													
					NODI														
					Sample	=	1759.8	= '	1771.2	03 - MGD								RC - Recorder (auto)	
	Flow, in conduit or thru treatment plant	1 - Effluent Gross			Permit		Reg Mon MO		Rea Mon DAII V	/								RC - Recorder	
50050			0		Req.		AVG		Req Mon DAILY	03 - MGD								(auto)	
					Value														
					NODI														
					Sample														
					Permit Req.						<= 0.0	027 MO AVG		<=	0.047 DAILY MX	19 - mg/L	01/07 - Weekly	GR - GRAB	
50060	Chlorine, total residual	1 - Effluent Gross	0												D. Dalam Data dian LimitAN	mg/L			
					Value NODI						В	- Below Detection Limit/No Detection			B - Below Detection Limit/No Detection				
					пові										Beteotion				
					Sample			= (0.2	62 - deg C/hr							99/99 - Continuous	CA - CALCTD	
00004		Z - Instream			Permit				2 0 D A II 3 / 1 A 3 /	62 - dea							20/22 2 1	OA OALOTD	
82234	Temperature rate of change deg. C/hr	Monitoring	0		Req.			<= 2	2.0 DAILY MX	C/hr							99/99 - Continuous	CA - CALCID	
					Value														
					NODI														
					Sample Permit														
	IC25 Static Renewal 7 Day Chronic	. ===			Req.						> 69	.0 MINIMUM				23 - %	01/30 - Monthly	CP - COMPOS	
TRP3B	Ceriodaphnia dubia	1 - Effluent Gross	0								0	- Conditional Monitoring - Not Required							
					Value NODI							his Period							
					Sample Permit														
50060 Chlorine, total residual 82234 Temperature rate of change deg. C/hr TRP3B IC25 Static Renewal 7 Day Chronic Ceriodaphnia dubia	IC25 Static Renewal 7 Day Chronic	1 - Effluent Gross	0		Req.						> 69	.0 MINIMUM				23 - %	01/30 - Monthly	CP - COMPOS	
	i - Elliuelli Gloss	U		Value						0	- Conditional Monitoring - Not Required								
				NODI							his 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: 2023-09-13 09:39 (Time Zone: -05:00)

Report Last Signed By

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

Permit

Permit #: TN0026450

Major: Yes

Permittee: Tennessee Valley Authority (TVA)

Permittee Address: Sequoyah Access Road, PO Box 2000

Soddy Daisy, TN 37379

Facility:
Facility Location:

TVA SEQUOYAH NUCLEAR PLANT (SQN)

SEQUOYAH ACCESS ROAD SODDY DAISY

SODDY DAISY, TN 37379

Permitted Feature: 103

Internal Outfall

Discharge: 103-G

(no description)

Report Dates & Status

Monitoring Period: From 08/01/23 to 08/31/23

DMR Due Date: 09/15/23

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

Marshall

Title: Vice President

Telephone:

423-843-7001

No Data Indicator (NODI)

Last Name:

Form NODI:

	1001.																			
	Parameter	Monitoring Location	Season #	Param. NODI	I		Qu	iantity or Loa	ding				Qual	ity or Concer	ntration			# of Ex. I	Frequency of Analysis	s 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						=	8.5			=	8.5	12 - SU	C	1/30 - Monthly	GR - GRAB
00400	рН	IM - Internal Monitoring Point	0		Permit Req						>=	6.0 MINIMUM			<=	9.0 MAXIMUM	12 - SU	C	1/30 - Monthly	GR - GRAB
00400					Value NOD	ı														
	Solids, total suspended	IM - Internal Monitoring Point			Sample								=	16.3	=	16.3	19 - mg/L		11/30 - Monthly	GR - GRAB
00530			0		Permit Req								<=	30.0 MO AVG	<=	100.0 DAILY MX	19 - mg/L	. C	1/30 - Monthly	GR - GRAB
00000					Value NOD	ı														
		IM - Internal Monitoring Point	0		Sample								=	13.0	=	13.0	19 - mg/L		11/30 - Monthly	GR - GRAB
00556	Oil & Grease				Permit Req								<=	15.0 MO AVG	<=	20.0 DAILY MX	19 - mg/L	C	1/30 - Monthly	GR - GRAB
00000	Oii & Grease				Value NOD	ı														
					Sample	= (0.522	=	0.522	03 - MGE)							C	11/30 - Monthly	IN - INSTAN
50050	Flow, in conduit or thru treatment plant	IM - Internal Monitoring Point	0		Permit Req	. F	Req Mon MO AV	G	Req Mon DAILY MX	03 - MGE)							C	1/30 - Monthly	IN - INSTAN
50050	i low, in conduit or tillu treatment plant	iwi - internal Monitoring Point			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: 2023-09-13 09:41 (Time Zone: -05:00)

Report Last Signed By

 User:
 TMCMUTUA

 Name:
 Tony McMutuary

 E-Mail:
 tmcmutuary@tva.gov

Permit

Permit #: TN0026450

Major: Yes

Permittee: Tennessee Valley Authority (TVA)

Permittee Address: Sequoyah Access Road, PO Box 2000

Vice President

Soddy Daisy, TN 37379

Facility: TVA SEQUOYAH NUCLEAR PLANT (SQN)

Facility Location: SEQUOYAH ACCESS ROAD

Status:

Telephone:

SODDY DAISY

NetDMR Validated

423-843-7001

SODDY DAISY, TN 37379

Permitted Feature: 107

Internal Outfall

Discharge: 107-G

Outfall (no description)

Report Dates & Status

Monitoring Period: From 08/01/23 to 08/31/23 DMR Due Date: 09/15/23

Considerations for Form Completion

Metal Cleaning Waste Pond discharge. No monitoring required for stormwater decanting. Daily monitoring required only during dewatering events.

Title:

Principal Executive Officer

First Name: Thomas

Last Name: Marshall

No Data Indicator (NODI)

Form NODI: -

FOIIII	Parameter	Monitoring Location	Season #	Param, NODI			Quantity or Loading	na			Quality or Cond	entration		# of	Ex. Frequency of Analysis	Sample Type
Code	Name					Qualifier	1 Value 1 Qualifier 2	, i	Qualifier 1	Value 1	Qualifier 2 Value		Value 3	Units		, , , , , , , , , , , , , , , , , , , ,
					Sample											
00400	На	IM - Internal Monitoring Point	0		Permit Req.				>=	6.0 MINIMUM		<=	9.0 MAXIMUM	12 - SU	01/01 - Daily	GR - GRAB
	•				Value NODI					C - No Discharge			C - No Discharge			
	30 Solids, total suspended				Sample											
00530		IM - Internal Monitoring Point	0		Permit Req.				<= 30.0 MO AVG		<=	100.0 DAILY MX	19 - mg/L	01/01 - Daily	CP - COMPO	
					Value NODI					C - No Discharge			C - No Discharge			
	Oil & Grease	IM - Internal Monitoring Point			Sample											
00556			0		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			
					Sample											
01042	Copper, total [as Cu]	IM - Internal Monitoring Point	0		Permit Req.				<=	1.0 MO AVG		<=	1.0 DAILY MX	19 - mg/L	01/01 - Daily	CP - COMPOS
	copper, total [as ou]	iw internal wormoning rount			Value NODI					C - No Discharge			C - No Discharge			
					Sample											
01045	Iron, total [as Fe]	IM - Internal Monitoring Point	0		Permit Req.				<=	1.0 MO AVG		<=	1.0 DAILY MX	19 - mg/L	01/01 - Daily	CP - COMPOS
	,	in internal Monitoring Fourt			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: 2023-09-13 09:34 (Time Zone: -05:00)

Report Last Signed By

 User:
 TMCMUTUA

 Name:
 Tony McMutuary

 E-Mail:
 tmcmutuary@tva.gov

Permit

TN0026450 Permit #:

Yes Major:

Permittee: Tennessee Valley Authority (TVA)

Sequoyah Access Road, PO Box 2000 Soddy Daisy, TN 37379 Permittee Address:

Facility: TVA SEQUOYAH NUCLEAR PLANT (SQN)

SEQUOYAH ACCESS ROAD SODDY DAISY SODDY DAISY, TN 37379 **Facility Location:**

Permitted Feature: 110

External Outfall

Discharge: 110-G (no description)

Report Dates & Status

DMR Due Date: Status: **Monitoring Period:** From 08/01/23 to 08/31/23 09/15/23 **NetDMR Validated**

Considerations for Form Completion

Outfall 110 is closed. Only active in the event the plant goes into closed mode.

Principal Executive Officer

Last Name: Marshall

No Data Indicator (NODI)

Form NODI:

Title: First Name: Thomas Vice President Telephone: 423-843-7001

	Parameter	Monitoring Location	Season	Param.			Qı	antity or Loa	ading				Quality	or Con	centration			# of	Frequency of	Sample Type
Code	Name		#	NODI		Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2		Qualifier 3	Value 3	Units	Ex.	Analysis	
					Sample	'		2					2		3					
					Permit				Req Mon DAILY MX	04 - deg									99/99 - Continuous	CA - CALCTD
00010	Temperature, water deg. centigrade	1 - Effluent Gross	0		Req.					С									33/33 - Gontinuous	OK - OKEOTE
					Value NOD	ı			C - No Discharge											
					Sample															
00010	Temperature, water deg. centigrade	Z - Instream	0		Permit Req.										<=	30.5 DAILY MX	04 - deg C		99/99 - Continuous	CA - CALCTD
00010		Monitoring	U		Value NOD											C - No Discharge				
					Sample															
00016	016 Temp. diff. between samp. & upstrm deg. C	1 - Effluent Gross	1		Permit Req.										<=	3.0 DAILY MX	04 - deg C		99/99 - Continuous	CA - CALCTD
00010	remp. dim. between samp. & upsum deg. o	1 - Emdent Gloss	1		Value NOD	ı										C - No Discharge				
		1 - Effluent Gross			Sample															
50050	Flow, in conduit or thru treatment plant		0		Permit Req.		Req Mon MO AVG		Req Mon DAILY MX	03 - MGD									99/99 - Continuous	RC - Recorder (auto)
	, , , , , , , , , , , , , , , , , , , ,				Value NOD		C - No Discharge		C - No Discharge											
					Sample															
50060	Chlorine, total residual	1 - Effluent Gross	0		Permit Req.						<=	0.027 MO AVG			<=	0.047 DAILY MX	19 - mg/L		05/WK - Five Per Week	GR - GRAB
					Value NOD							C - No Discharge				C - No Discharge				
					Sample															
82234	Temperature rate of change deg. C/hr	Z - Instream	0		Permit Req.										<=	30.5 DAILY MX	62 - deg C/hr		99/99 - Continuous	CA - CALCTD
02201	- Composition of Containing and Cont	Monitoring			Value NOD											C - No Discharge				
					Sample															
TRP3B	IC25 Static Renewal 7 Day Chronic Ceriodaphnia	1 - Effluent Gross	0		Permit Req.						>=	69.0 MINIMUM					23 - %		01/30 - Monthly	GR - GRAB
	dubia				Value NOD							C - No Discharge								
					Sample															
TRP6C	IC25 Static Renewal 7 Day Chronic Chroimenhales	1 - Effluent Gross	0		Permit Req.						>=	69.0 MINIMUM					23 - %		01/30 - Monthly	GR - GRAB
1111 00	RP6C IC25 Static Renewal 7 Day Chronic Chrpimephales 1	i - Eilluent Gross			Value NOD	ı						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: 2023-09-13 09:36 (Time Zone: -05:00)

Report Last Signed By

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

Permit

Major:

TN0026450 Permit #:

Yes

Permittee: Tennessee Valley Authority (TVA)

Sequoyah Access Road, PO Box 2000 Soddy Daisy, TN 37379 Permittee Address:

Facility Location:

Facility:

TVA SEQUOYAH NUCLEAR PLANT (SQN)

SEQUOYAH ACCESS ROAD SODDY DAISY

SODDY DAISY, TN 37379

Permitted Feature:

118

Discharge: External Outfall

118-G (no description)

Report Dates & Status

Monitoring Period: From 08/01/23 to 08/31/23 **DMR Due Date:** 09/15/23 Status:

NetDMR Validated

Principal Executive Officer

First Name: Thomas

Considerations for Form Completion

Marshall

Title: Vice President Telephone:

423-843-7001

No Data Indicator (NODI)

Last Name:

Form NODI:

. •																			
	Parameter	Monitoring Location	Season # Param. NODI			Qua	ntity or Load	ling				Quality o	r Conce	entration			# of Ex.	Frequency of Analysis	Sample Type
Code	Name				Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Qualifier 2 Value 2 Qualifier 3		Value 3	Units			
	Oxygen, dissolved [DO]	1 - Effluent Gross		Sample															
00300			0	Permit Req						>=	2.0 MINIMUM					19 - mg/L	1	02/07 - Twice Every Week	GR - GRAB
33300				Value NOD							C - No Discharge								
		1 - Effluent Gross		Sample															
00530	Solids, total suspended		0	Permit Req										<=	100.0 DAILY MX	19 - mg/L	1	02/07 - Twice Every Week	GR - GRAB
00000				Value NOD											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
00040	Johns, Settleable	1 - Ellident Gloss		Value NOD											C - No Discharge				
				Sample															
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	Permit Req		Req Mon MO AVG		Req Mon DAILY MX	03 - MGD)							1	01/BA - Once Per Batch	ES - ESTIMA
	riow, in conduit of thru treatment plant	i - Liliuelli Gloss		Value NOD		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: 2023-09-13 09:37 (Time Zone: -05:00)

Report Last Signed By

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

2023-09-14 05:16 (Time Zone: -05:00) Date/Time: