

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

May 14, 2021

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

Subject:

Sequoyah Nuclear Plant, Discharge Monitoring Report (DMR), April 2021

Attached is the April 2021 DMR for Sequoyah Nuclear Plant.

Respectfully,

Travis R. Markum

**Environmental Scientist** 

Permit

TN0026450 Permit #:

Tennessee Valley Authority (TVA) Permittee:

Facility: TVA SEQUOYAH NUCLEAR PLANT (SQN)

Yes Major:

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

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

**Permitted Feature:** 101

Marshall

101-G

External Outfall

(no description)

Report Dates & Status

**Monitoring Period:** From 04/01/21 to 04/30/21 **DMR Due Date:** 05/15/21

Discharge:

Title:

**NetDMR Validated** 

**Considerations for Form Completion** 

Primary discharge from Diffuser Pond.

Principal Executive Officer

First Name: Thomas Site Vice President

Telephone: 423-843-7001

Status:

No Data Indicator (NODI)

**Last Name:** 

Form NODI:

	Parameter	Monitoring Location	Seasor					uantity or L					Concentration		# of		Sample Type
Code	Name		#	NODI		Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1		alifier Value Qualifie 2 2 3	Value 3	Units Ex.	Analysis	
					Sample								=	29.9	04 - deg C	99/99 - Continuous	RC - Recorder (auto)
00010	Temperature, water deg. centigrade	1 - Effluent Gross	0		Permit Req.									Req Mon DAILY MX	04 - deg C	99/99 - Continuous	RC - Recorder (auto)
					Value NODI												
					Sample								=	19.6	04 - deg C	99/99 - Continuous	CA - CALCTD
00010	Temperature, water deg. centigrade	Z - Instream Monitoring	0		Permit Req.								<=	30.5 DAILY MX	04 - deg C	99/99 - Continuous	CA - CALCTD
					Value NODI												
					Sample								=	2.0	04 - deg C	99/99 - Continuous	CA - CALCTD
00016	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
					Value NODI												
	Flow, in conduit or thru treatment plant				Sample	=	1283.7		1739.8	03 - MGD						99/99 - Continuous	(auto)
50050		1 - Effluent Gross	0		Permit Req.		Req Mon MO AVG		Req Mon DAILY MX	03 - MGD						99/99 - Continuous	RC - Recorder (auto)
					Value 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			=	0.1	62 - deg C/hr						99/99 - Continuous	CA - CALCTD
82234	Temperature rate of change deg. C/hr	Z - Instream Monitoring	0		Permit Req.			<=	2.0 DAILY MX	62 - deg C/hr						99/99 - Continuous	CA - CALCTD
					Value NODI												
					Sample Permit												
TRP3B	IC25 Static Renewal 7 Day Chronic Chrceriodaphnia	1 - Effluent Gross	0		Req.							69.0 MINIMUM			23 - %	01/30 - Monthly	CP - COMPOS
					Value NODI							9 - Conditional Monitoring - Not Required This Period					
					Sample												
TRP6C	IC25 Static Renewal 7 Day Chronic	1 - Effluent Gross	0		Permit Req.						>	69.0 MINIMUM			23 - %	01/30 - Monthly	CP - COMPOS
	Chrpimephales				Value NODI							9 - Conditional Monitoring - Not Required This Period					

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.

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: 2021-05-12 13:36 (Time Zone: -05:00)

Report Last Signed By

User: TMCMUTUA

Name: Tony McMutuary

E-Mail: tmcmutuary@tva.gov

Date/Time: 2021-05-14 08:14 (Time Zone: -05:00)

Permit

Major:

TN0026450 Permit #:

Permittee: Tennessee Valley Authority (TVA)

Sequoyah Access Road, PO Box 2000 **Permittee Address:** 

Soddy Daisy, TN 37379

Site Vice President

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

423-843-7001

Telephone:

SODDY DAISY, TN 37379

**Permitted Feature:** 103

Internal Outfall

Thomas

Yes

Discharge:

103-G (no description)

Report Dates & Status

Status: **DMR Due Date: Monitoring Period:** From 04/01/21 to 04/30/21 05/15/21 **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** Title:

Last Name: Marshall

No Data Indicator (NODI)

First Name:

Form NODI:

	Parameter	Monitoring Location	Season #	# Param. NODI		Quantity or Loading						Quality or Concentration							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			
	рН				Sample						=	7.0			=	7.0	12 - SU	(	01/30 - Monthly	GR - GRAB
00400		IM - Internal Monitoring Point	0		Permit Req						>=	6.0 MINIMUM			<= !	9.0 MAXIMUM	12 - SU	(	01/30 - Monthly	GR - GRAB
					Value NOD															
	Solids, total suspended	IM - Internal Monitoring Point			Sample								=	9.6	= 9	9.6	19 - mg/L	(	01/30 - Monthly	GR - GRAB
00530			0		Permit Req								<=	30.0 MO AV	G <=	100.0 DAILY MX	19 - mg/L	(	01/30 - Monthly	GR - GRAB
					Value NOD															
			0		Sample								<	5.0	< ;	5.0	19 - mg/L	(	01/30 - Monthly	GR - GRAB
00556	Oil & Grease	IM - Internal Monitoring Point			Permit Req								<=	15.0 MO AV	} <= :	20.0 DAILY MX	19 - mg/L	(	01/30 - Monthly	GR - GRAB
00000	Oil & Orease	in internal Monitoring Found			Value NOD															
			0		Sample	= 1.	.424	=	1.424	03 - MGD	)							(	01/30 - Monthly	IN - INSTAN
50050	Flow, in conduit or thru treatment plant	IM - Internal Monitoring Point			Permit Req	. R	eq Mon MO AVG	i	Req Mon DAILY MX	03 - MGD								(	01/30 - Monthly	IN - INSTAN
22300		in momentument of the			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 Travis Markum Name: E-Mail: trmarkum@tva.gov

Date/Time: 2021-05-12 13:28 (Time Zone: -05:00)

Report Last Signed By

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

Date/Time: 2021-05-14 08:14 (Time Zone: -05:00)

Permit

Major:

Permit #: TN0026450

Yes

Permittee: Tennessee Valley Authority (TVA)

**Permittee Address:** Seguoyah Access Road, PO Box 2000

Soddy Daisy, TN 37379

Site Vice President

Facility: **Facility Location:** 

Telephone:

TVA SEQUOYAH NUCLEAR PLANT (SQN)

SEQUOYAH ACCESS ROAD SODDY DAISY, TN 37379

423-843-7001

**Permitted Feature:** 107

Internal Outfall

Discharge:

107-G (no description)

Report Dates & Status

**Monitoring Period:** From 04/01/21 to 04/30/21 **DMR Due Date:** 05/15/21 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.

Title:

**Principal Executive Officer** 

Thomas **First Name:** 

**Last Name:** Marshall

No Data Indicator (NODI)

Form NODI: **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 Code Value 1 Qualifier 2 Value 2 Qualifier 3 Value 3 Units Sample 6.0 MINIMUM 9.0 MAXIMUM 01/01 - Daily GR - GRAB **Permit Rea** 12 - SU 00400 **pH** IM - Internal Monitoring Point 0 Value NODI C - No Discharge C - No Discharge Sample Permit Reg. 30.0 MO AVG 100.0 DAILY MX 19 - mg/L 01/01 - Daily CP - COMPOS 00530 **Solids, total suspended** IM - Internal Monitoring Point 0 Value NODI C - No Discharge C - No Discharge Sample 15.0 MO AVG 20.0 DAILY MX 01/01 - Daily GR - GRAB <= 19 - mg/L Permit Req. <= 00556 Oil & Grease IM - Internal Monitoring Point 0 C - No Discharge Value NODI C - No Discharge Sample 1.0 MO AVG 1.0 DAILY MX 01/01 - Daily CP - COMPOS Permit Reg. 19 - mg/L 01042 Copper, total [as Cu] IM - Internal Monitoring Point 0 Value NODI C - No Discharge C - No Discharge Sample 1.0 MO AVG 19 - mg/L 01/01 - Daily CP - COMPOS Permit Req. 1.0 DAILY MX IM - Internal Monitoring Point 0 01045 Iron, total [as Fe] 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** 

There has been no discharge from the Metal Cleaning Waste Ponds during the reporting period, other than decanted accumulated stormwater. Monitoring not required (NODI = 9) per Part I.A.3. of the NPDES permit.

**Attachments** 

No attachments.

Report Last Saved By

Tennessee Valley Authority (TVA)

User: **TRMARKUM** Name: Travis Markum E-Mail: trmarkum@tva.gov

2021-05-12 13:28 (Time Zone: -05:00) Date/Time:

Report Last Signed By

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

Date/Time: 2021-05-14 08:14 (Time Zone: -05:00)

Permit

TN0026450 Permit #:

Permittee: Tennessee Valley Authority (TVA)

Major: Yes

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

**Facility Location:** 

Facility:

Status:

TVA SEQUOYAH NUCLEAR PLANT (SQN)

**Permitted Feature:** 110 External Outfall Discharge: 110-G

**DMR Due Date:** 

Title:

SEQUOYAH ACCESS ROAD SODDY DAISY, TN 37379

Report Dates & Status

**Monitoring Period:** From 04/01/21 to 04/30/21 (no description)

05/15/21

**NetDMR Validated** 

**Considerations for Form Completion** 

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

Marshall

Principal Executive Officer

First Name: Thomas Site Vice President

Telephone:

423-843-7001

No Data Indicator (NODI)

Last Name:

Form NODI:

	Parameter	Monitoring Location	Season	n #Param. NOD	I		Qua	antity or Loading					Quality or	Concentration		# (	of Ex. Frequency of Analysis	Sample Type
Code	Name					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	1 Value 1	Qualifier 2 Va	lue 2 Qualifier 3	Value 3	Units		
					Sample Permit Reg.			D - 11 M	DAILY MY	040							00/00 0 ti	CA - CALCTD
00010	Temperature, water deg. centigrade	1 - Effluent Gross	0					·	on DAILY MX	04 - deg C							99/99 - Continuous	CA - CALCID
					Value NODI			C - N	o Discharge									
					Sample													
00010	Temperature, water deg. centigrade	Z - Instream Monitoring	0		Permit Req.									<=		04 - deg C	99/99 - Continuous	CA - CALCTD
					Value NODI										C - No Discharge			
					Sample													
00016	Temp. diff. between samp. & upstrm deg. C	1 - Effluent Gross	2		Permit Req.									<=		04 - deg C	99/99 - Continuous	CA - CALCTD
					Value NODI										C - No Discharge			
	Flow, in conduit or thru treatment plant	1 - Effluent Gross			Sample													
50050			0		Permit Req.		Req Mon MO AVG	Req Mo	on DAILY MX	03 - MGD							99/99 - Continuous	RC - Recorder (auto)
					Value NODI		C - No Discharge	C - N	o Discharge									
	Chlorine, total residual	1 - Effluent Gross			Sample													
50060			0		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			C - No Discharge			
					Sample													
82234	Temperature rate of change deg. C/hr	Z - Instream Monitoring	0		Permit Req.									<=	30.5 DAILY MX	62 - deg C/hr	99/99 - Continuous	CA - CALCTD
		_			Value NODI										C - No Discharge			
					Sample													
TRP3B	IC25 Static Renewal 7 Day Chronic Chrceriodaphnia	1 - Effluent Gross	0		Permit Req.						>=	69.0 MINIMUM				23 - %	01/30 - Monthly	GR - GRAB
					Value NODI							C - No Discharge						
					Sample													
TRP6C	IC25 Static Renewal 7 Day Chronic Chrpimephales	1 - Effluent Gross	0		Permit Req.						>=	69.0 MINIMUM				23 - %	01/30 - Monthly	GR - GRAB
					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)

TRMARKUM User: Name: Travis Markum E-Mail: trmarkum@tva.gov

Date/Time: 2021-05-12 13:26 (Time Zone: -05:00) Report Last Signed By

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

Date/Time: 2021-05-14 08:14 (Time Zone: -05:00)

Permit

TN0026450 Permit #:

Permittee:

TVA SEQUOYAH NUCLEAR PLANT (SQN)

Major:

Yes

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

05/15/21

Tennessee Valley Authority (TVA)

**Facility Location:** 

SEQUOYAH ACCESS ROAD

**Permitted Feature:** 

118 External Outfall

Marshall

118-G (no description) SODDY DAISY, TN 37379

Report Dates & Status

**Monitoring Period:** From 04/01/21 to 04/30/21

**DMR Due Date:** 

Discharge:

Status:

Facility:

**NetDMR Validated** 

**Considerations for Form Completion** 

Principal Executive Officer

First Name: Thomas Title: Site Vice President Telephone:

423-843-7001

No Data Indicator (NODI)

Last Name:

Form NODI:

	Parameter Monitoring Location Season # Param. NODI			Quantity or Loading								Quality o		# 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	2 Qualifier 3	Value 3	Units			
	Oxygen, dissolved [DO]			Sample															
00300		1 - Effluent Gross	0	Permit Req						>=	2.0 MINIMUM					19 - mg/L		02/07 - Twice Every Week	GR - GRAB
				Value NOD	ı						C - No Discharge								
	Solids, total suspended	1 - Effluent Gross		Sample															
00530			0	Permit Req										<=	100.0 DAILY MX	19 - mg/L		02/07 - Twice Every Week	GR - GRAB
				Value NOD	ı										C - No Discharge				
		1 - Effluent Gross		Sample															
00545	Solids, settleable		0	Permit Req										<=	1.0 DAILY MX	25 - mL/L		01/30 - Monthly	GR - GRAB
	33			Value NOD	ı										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									01/BA - Once Per Batch	ES - ESTIMA
	,			Value NOD	ı	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: 2021-05-12 13:27 (Time Zone: -05:00)

Report Last Signed By

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

Date/Time: 2021-05-14 08:14 (Time Zone: -05:00)