

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

February 11, 2022

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

Subject: Sequoyah Nuclear Plant, Discharge Monitoring Report (DMR), January 2022

Attached is the January 2022 DMR for Sequoyah Nuclear Plant.

Respectfully,

ZR ML

Travis R. Markum Environmental Scientist

Permit																				
Permit #	t: 1	TN0026450			Pe	ermittee:			Tennessee Va	lley Autho	ority (TVA		Facility:		TVA SEQUOYAH NUCLEAR F	PLANT (SQN)				
Major:	·	Yes			Pe	Permittee Address:			Sequoyah Acc Soddy Daisy,	ess Road TN 37379	l, PO Box	2000	Facility Loo	cation:	SEQUOYAH ACCESS ROAD SODDY DAISY, TN 37379					
Permitte	ed Feature:	101 External Outfall	I		Di	ischarge:	101-G (no descriptior	1)												
Report L	Dates & Status																			
Ionitori	ing Period:	From 01/01/22	to 01/31/22		DI	MR Due Date:	:		02/15/22				Status:		NetDMR Validated					
Conside	rations for Form Completic	on																		
Primary o	discharge from Diffuser Pond	Ι.																		
Principa	I Executive Officer																			
First Na		Thomas			Tif	itle:			Vice President	t			Telephone	:	423-843-7001					
ast Nar		Marshall																		
	Indicator (NODI)																			
orm NC		-		0.					Land								English	0		
Code	Parameter Name		Monitoring Location	Season #	NODI	Qualit 1	ifier Value 1	Quantity or Qualifie 2	-	Units	Qualifier 1	Value 1	Qualifie	or Concentration er Value Qualifier 2 3	Value 3	# of Units Ex.	Frequency of Analysis			
						Sample								=	27.7	04 - deg C	99/99 - Continuous	RC - Recorder		
00010	Temperature, water deg. cen	tigrade	1 - Effluent Gross	0		Permit									Req Mon DAILY MX			. ,		
		J		-		Req. Value									•	C		(auto)		
						NODI										04 4-5				
						Sample								=	14.4	04 - deg C	99/99 - Continuous	S CA - CALCTD		
00010	Temperature, water deg. cen	tigrade	Z - Instream Monitoring	0		Permit Req.								<=	30.5 DAILY MX	04 - deg C	99/99 - Continuous	GA - CALCTD		
			Ū			Value NODI														
						Sample														
0040	Temp. diff. between samp. &	upstrm dea.				Permit Req.								<=	3.0 DAILY MX	04 - deg C	99/99 - Continuous	GA - CALCTD		
00016	C		1 - Effluent Gross	1		Value NODI									9 - Conditional Monitoring - Not Required This Period	-				
						Sample								= :	2.4	04 - deg C	99/99 - Continuous	CA - CALCTD		
00016	Temp. diff. between samp. &	upstrm deg.	1 - Effluent Gross	2		Permit								<=	5.0 DAILY MX	04 - deg	99/99 - Continuous	CA - CALCTD		
	С			_		Req. Value NODI										C				
						Sample =	1713.8	=	1730.8	03 - MGD							99/99 - Continuous	RC - Recorder (auto)		
50050	Flow, in conduit or thru treat	ment plant	1 - Effluent Gross	0		Permit Req.	Req Mon MC AVG	C	Req Mon DAILY	03 - MGD							99/99 - Continuous	RC - Recorder		
						Value NODI												()		
						Sample														
50060	Chlorine, total residual		1 - Effluent Gross	0		Permit Req.					<= (027 MO AVG		<=).047 DAILY MX	19 - mg/L	01/07 - Weekly	GR - GRAB		
	enterne, totar residuar		Eliacit Gloss	U		Value						B - Below Detection Limit/No Detectio	n		B - Below Detection Limit/No Detection	ing/L				
						NODI		_	0.0	62 - deg							99/99 - Continuous			
			Z - Instream			Sample Permit		=	0.0	C/hr										
82234	Temperature rate of change	deg. C/hr	Monitoring	0		Req.		<=	2.0 DAILY MX	62 - deg C/hr							99/99 - Continuous	S CA - CALCTD		
						Value NODI														
						Sample														
	IC25 Static Renewal 7 Day Cl	hronic	1 - Effluent Gross	0		Permit Req.					> 6	9.0 MINIMUM				23 - %	01/30 - Monthly	CP - COMPOS		
	Chrceriodaphnia					Value NODI						9 - Conditional Monitoring - Not Requi This Period	ired							
						Sample Permit					> 6	9.0 MINIMUM				23 - %	01/30 - Monthly	CP - COMPOS		
TRP6C	IC25 Static Renewal 7 Day Cl Chrpimephales	hronic	1 - Effluent Gross	0		Req.						9 - Conditional Monitoring - Not Requi				20 - /0		01 - 00WF05		
						Value) (and the net Manitesian Net Desuit	Irod							

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.

		U	,	· · · ·	<i>, , , ,</i>	21
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:	2022-02-08 16:24 (Time Zo	ne: -06:00)				
Report Last Signed By						
User:	TMCMUTUA					
Name:	Tony McMutuary					
E-Mail:	tmcmutuary@tva.gov					
Date/Time:	2022-02-10 15:24 (Time Zo	ne: -06:00)				



Permit																					
Permit	#:	TN0026450		Permit	tee:		Те	nnessee Valley	Authority	(TVA)			Facility:			TVA SEQ	UOYAH NUCL	EAR PLA	ANT (SQN)		
Major:		Yes						Sequoyah Access Road, PO Box 2000 Soddy Daisy, TN 37379				Facility Location: SEQUOYAH ACCES SODDY DAISY, TN 3 SODDY DAISY, TN 3									
Permit	ed Feature:	103 Internal Outfall		Discha	irge:		10 3 (no	3-G description)													
Report	Dates & Status																				
Monito	ring Period:	From 01/01/22	2 to 01/31/22	DMR D	ue Date:		02/	15/22					Status:			NetDMR	Validated				
Consid	lerations for Form Comp	oletion		•									•								
Internal	Monitoring Point for vario	ous flows from Lo	ow Volume Waste Treatment I	Pond to D)iffuser Pon	d, which ev	/entually o	discharges throu	igh Outfal	II 101.											
Princip	al Executive Officer																				
First N	ame:	Thomas		Title:			Vic	e President					Telephon	e:		423-843-7	7001				
Last Na	ame:	Marshall											1 -								
No Dat	a Indicator (NODI)			l																	
Form N	. ,																				
	Parameter		Monitoring Location	Season #	Param. NODI			Qua	antity or Lo	ading				Qua	ality or Conce	entration			# of Ex. Frequ	ency of Analy	sis Sample Type
Code	Name						Qualifier 1	Value 1	Qualifier 2	2 Value 2	Units	Qualifier 1		Qualifier	2 Value 2			Units			
						Sample Permit Reg.						= >=	6.0 6.0 MINIMUN	4		=		12 - SU 12 - SU		- Monthly - Monthly	GR - GRAB GR - GRAB
00400	рН		IM - Internal Monitoring Point	0		Value NODI						-		1		~	3.0 MAXIMOM	12 - 50	01/30	- Montiny	
						Sample								=	6.4	=	6.4	19 - mg/L	01/30	- Monthly	GR - GRAB
00530	Solids, total suspended		IM - Internal Monitoring Point	0		Permit Req.								<=	30.0 MO AV	/G <=	100.0 DAILY MX	(19 - mg/L	01/30	- Monthly	GR - GRAB
						Value NODI															
						Sample								<	5.1			19 - mg/L		- Monthly	GR - GRAB
00556	Oil & Grease		IM - Internal Monitoring Point	0		Permit Req.								<=	15.0 MO AV	/G <=	20.0 DAILY MX	19 - mg/L	01/30	- Monthly	GR - GRAB
						Value NODI															
						Sample			=		03 - MGD									- Monthly	IN - INSTAN
50050	50050 Flow, in conduit or thru trea	reatment plant	IM - Internal Monitoring Point	0		Permit Req.		Req Mon MO AVG		Req Mon DAILY MX	03 - MGD								01/30	- Monthly	IN - INSTAN
						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:	trmarkum@tva.gov
Date/Time:	2022-02-08 16:26 (Time Zone: -06:00)
Report Last Signed By	
User:	TMCMUTUA
Name:	Tony McMutuary
E-Mail:	tmcmutuary@tva.gov
Date/Time:	2022-02-10 15:24 (Time Zone: -06:00)

Permit															
	TN0026450		Permittee:		Tennessee Valley Authorit	ν (T\/Δ)		Facility:				FAR PLANT (SON)			
	Yes		Permittee A	ddross:	Sequoyah Access Road, F			Facility Location	.	TVA SEQUOYAH NUCLEAR PLANT (SQN) SEQUOYAH ACCESS ROAD					
	165		Fernintee A	auress.	Soddy Daisy, TN 37379					SODDY DAISY, TN 37379					
	107 Internal Outfall		Discharge:		107-G (no description)										
Report Dates & Status															
Monitoring Period:	From 01/01/22 to 01/31/22		DMR Due D	ate:	02/15/22			Status:		NetDMR Valid	ated				
Considerations for Form Con	npletion														
Metal Cleaning Waste Pond dis	scharge. No monitoring required	l for storr	mwater decai	nting. Daily	monitoring required only during dev	watering eve	nts.								
Principal Executive Officer															
First Name:	Thomas		Title:		Vice President			Telephone:		423-843-7001					
Last Name:	Marshall														
No Data Indicator (NODI)															
Form NODI:															
Parameter	Monitoring Location	Season	# Param. NODI		Quantity or Loading	ite Overlifier 4	Malua 4	Quality or Conce		Malua 0		# of Ex. Frequency of Analysis	Sample Type		
Code Name				Sample	Qualifier 1 Value 1 Qualifier 2 Value 2 Ur	nits Qualifier 1	Value 1	Qualifier 2 Value 2	Qualifier	3 Value 3	Units				
00400 pH	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					
				Sample											
00530 Solids, total suspended	d IM - Internal Monitoring Point	0		Permit Req.		<=	30.0 MO AVG		<=		19 - mg/L	01/01 - Daily	CP - COMPOS		
				Value NODI			C - No Discharge			C - No Discharge					
00550		2		Sample Permit Req.		<=	15.0 MO AVG		<=	20.0 DAILY MX	19 - mg/L	01/01 - Daily	GR - GRAB		
00556 Oil & Grease	IM - Internal Monitoring Point	0		Value NODI			C - No Discharge			C - No Discharge					
				Sample			<u> </u>								
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 - COMPO		
				Value NODI			C - No Discharge			C - No Discharge					
				Sample							10 11				
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		
				Value NODI			C - No Discharge			C - No Discharge					
Submission Note															
	ntain any values for the Sample	nor Efflu	uent Trading,	then none of	of the following fields will be submit	ted for that re	ow: Units, Numbe	r of Excursions, F	requency	of Analysis, and S	Sample I	ype.			
Edit Check Errors															
No errors.															
Comments															
Attachments No attachments.															
Report Last Saved By															
Tennessee Valley Authority (TVA)														
User:		RKUM													
Name:		Marku	ım												
E-Mail:		kum@tva													
Date/Time:			6:27 (Time 2	Zone: -06:00))										
Report Last Signed By															
User:	TMCM	IUTUA													

Tony McMutuary Name: E-Mail: tmcmutuary@tva.gov 2022-02-10 15:24 (Time Zone: -06:00) Date/Time:

Permit				1																
Permit #	#:	TN0026450		Perm	nittee:		-	Tennessee Valley	Authority (TVA)			Facility:		T۱	TVA SEQUOYAH NUCLEAR PLANT (SQN)					
Major:		Yes		Perm				Sequoyah Access Road, PO Box 2000 Soddy Daisy, TN 37379				Facility Location:			SEQUOYAH ACCESS ROAD SODDY DAISY, TN 37379					
Permitt	ted Feature:	110 External Outfall		Disch	harge:			110-G (no description)												
Report	Dates & Status			1																
Monito	ring Period:	From 01/01/22 to 01/31/2	/22	DMR	Due Date:		(02/15/22				Status:		Ne	otDMR Validated	d				
Consid	lerations for Form Comple	etion										I								
Outfall 1	110 is closed. Only active in	n the event the plant goes ir	nto closed mode.																	
Princip	al Executive Officer																			
First Na	ame:	Thomas		Title:	:		١	Vice President				Telephone:		42	3-843-7001					
Last Na	ame:	Marshall										- · ·								
No Data	ta Indicator (NODI)			1																
Form N																				
	Parameter	r	Monitoring Location	Season	n #Param. NOD	DI		Quan	tity or Loading				Quality	or Concentratio	n		# of Ex. Frequency of	f Analysis	Sample Type	
Code	Na	ame					Qualifier 1	Value 1	Qualifier 2 Value 2	Units	Qualifier 1	Value 1	Qualifier 2	2 Value 2 Qualifie	3 Value 3	Units				
00040	T		4 Efficient Origin	0		Sample Permit Req.			Req Mon DAILY MX	04 - dea C							99/99 - Contir	nuous	CA - CALCTD	
00010	Temperature, water deg. c	entigrade	1 - Effluent Gross	0		Value NODI			C - No Discharge											
						Sample														
00010	Temperature, water deg. c	centigrade	Z - Instream Monitoring	0		Permit Req.								<=	30.5 DAILY MX	04 - deg C	99/99 - Contir	nuous	CA - CALCTD	
			, i i i i i i i i i i i i i i i i i i i			Value NODI									C - No Dischar	rge				
						Sample														
00016	Temp. diff. between samp	. & upstrm deg. C	1 - Effluent Gross	2		Permit Req.								<=	5.0 DAILY MX	04 - deg C	99/99 - Contir	nuous	CA - CALCTD	
						Value NODI									C - No Dischar	rge				
						Sample Permit Req.		Req Mon MO AVG	Req Mon DAILY MX	03 - MGD							99/99 - Contir		RC - Recorder (a	
50050	Flow, in conduit or thru tre	eatment plant	1 - Effluent Gross	0		Value NODI		C - No Discharge	C - No Discharge	00 - 1000							33/33 - Contin	luous		
						Sample		e ne biocharge												
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	
00000	emonino, total rooladal			U		Value NODI					(C - No Discharge			C - No Dischar	rge				
						Sample														
82234	Temperature rate of chang	ge deg. C/hr	Z - Instream Monitoring	0		Permit Req.								<=	30.5 DAILY MX	62 - deg C/h	r 99/99 - Contir	nuous	CA - CALCTD	
						Value NODI									C - No Dischar	rge				
						Sample														
TRP3B	IC25 Static Renewal 7 Day	/ Chronic Chrceriodaphnia	1 - Effluent Gross	0		Permit Req.										23 - %	01/30 - Month	ly	GR - GRAB	
						Value NODI						C - No Discharge								
						Sample Permit Reg.					>= 69	9.0 MINIMUM				23 - %	01/30 - Month	lv.	GR - GRAB	
TRP6C	IC25 Static Renewal 7 Day	/ Chronic Chrpimephales	1 - Effluent Gross	0		Value NODI						C - No Discharge				20 - 70	0 1/30 - Mont	.,		
	ssion Note																			

Submission Note

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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: 2022-02-08 16:28 (Time Zone: -06:00)

Report Last Signed By	
User:	TMCMUTUA
Name:	Tony McMutuary
E-Mail:	tmcmutuary@tva.gov
Date/Time:	2022-02-10 15:24 (Time Zone: -06:00)

Permit																				
Permit	#•	TN0026450			Permit	too:		Tenness	a Vallav Au	thority $(T)/A$			Facility:		T\/A	SEQUOYAH NU		οι ανίτ (9	SONI)	
						Permittee Address:							-						JQIN)	
Major:		Yes			Permit	tee Addres	SS:		Soddy Daisy, TN 37379				Facility	Facility Location: SEQUOYAH ACCESS R SODDY DAISY, TN 373 SODDY DAISY, TN 373						
Permitt		118 External Outfa	all		Discha	irge:		118-G (no descr	iption)											
Report	Dates & Status				•															
Monito	Monitoring Period: From 01/01/22 to 01/31/22				DMR D	ue Date:		02/15/22					Status:		Net	DMR Validated				
Consid	erations for Form Compl	letion											•							
Princip	al Executive Officer																			
First Na	ame:	Thomas			Title:			Vice Pres	ident				Telephor	Telephone: 423-843-7001						
Last Na	ime:	Marshall											l							
No Data	a Indicator (NODI)																			
Form N	ODI:																			
	Parameter		Monitoring Location	Season #	Param. NOD				antity or Load	-					r Concentration			# of Ex.	Frequency of Analysis	s Sample Typ
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 Permit Reg.						>=	2.0 MINIMUM				19 - mg/L		02/07 - Twice Every Wee	
00300	Oxygen, dissolved [DO]		1 - Effluent Gross	0		Value NODI						-	C - No Discharge				19 - 119/L		2/07 - Twice Every wee	
						Sample							e ne bischarge							
00530	Solids, total suspended		1 - Effluent Gross	0		Permit Req.									<=	100.0 DAILY MX	19 - mg/L	. ()2/07 - Twice Every Wee	ek GR - GRAB
00550	Solius, total suspended		I - Ellident Gloss	0		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 tre	eatment 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 NODI C - No D		C - No Discharge	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:	2022-02-08 16:29 (Time Zone: -06:00)
Report Last Signed By	
User:	TMCMUTUA
Name:	Tony McMutuary
E-Mail:	tmcmutuary@tva.gov
Date/Time:	2022-02-10 15:24 (Time Zone: -06:00)