



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

September 8, 2022

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

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

Attached is the July 2022 DMR for Sequoyah Nuclear Plant.

Respectfully,

A handwritten signature in black ink, appearing to read 'T. R. Markum', is written above the typed name.

Travis R. Markum
Environmental Scientist

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

Report Dates & Status		Monitoring Period: From 07/01/22 to 07/31/22	DMR Due Date: 08/15/22	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								=	43.0		04 - deg C	99/99 - Continuous	RC - Recorder (auto)			
					Permit Req.																
					Value NODI																
00010	Temperature, water deg. centigrade	Z - Instream Monitoring	0	--	Sample								=	30.5		04 - deg C	99/99 - Continuous	CA - CALCTD			
					Permit Req.																
					Value NODI																
00016	Temp. diff. between samp. & upstrm deg. C	1 - Effluent Gross	1	--	Sample								=	2.0		04 - deg C	99/99 - Continuous	CA - CALCTD			
					Permit Req.																
					Value NODI																
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample	=	1747.9	=	1792.5	03 - MGD								99/99 - Continuous	RC - Recorder (auto)		
					Permit Req.		Req Mon MO AVG		Req Mon DAILY MX	03 - MGD											
					Value NODI																
50060	Chlorine, total residual	1 - Effluent Gross	0	--	Sample																
					Permit Req.																
					Value NODI																
82234	Temperature rate of change deg. C/hr	Z - Instream Monitoring	0	--	Sample			=	1.6	62 - deg C/hr								99/99 - Continuous	CA - CALCTD		
					Permit Req.																
					Value NODI																
TRP3B	IC25 Static Renewal 7 Day Chronic Chrceriodaphnia	1 - Effluent Gross	0	--	Sample																
					Permit Req.																
					Value NODI																
TRP6C	IC25 Static Renewal 7 Day Chronic Chrpimephales	1 - Effluent Gross	0	--	Sample																
					Permit Req.																
					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

Method Detection Limit for Total Residual Chlorine is 0.05 mg/L. The computed compliance model was declared out of service on 7/30/22 at 1230 due to a bad sensor in the diffuser pipes used to calculate the downstream temperatures. The model was declared back in service on 7/30/22 at 1800 after the sensor was repaired (replaced).

Attachments

No attachments.

Report Last Saved By

Tennessee Valley Authority (TVA)

User: TRMARKUM
Name: Travis Markum
E-Mail: trmarkum@tva.gov
Date/Time: 2022-08-12 08:57 (Time Zone: -05:00)

Report Last Signed By

User: TMCMUTUA
Name: Tony McMutuary
E-Mail: tncmutuary@tva.gov
Date/Time: 2022-08-15 05:35 (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 07/01/22 to 07/31/22	DMR Due Date: 08/15/22
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						=	7.7			=	7.7	12 - SU	01/30 - Monthly	GR - GRAB	
					Permit Req.					>=	6.0 MINIMUM			<=	9.0 MAXIMUM	12 - SU	01/30 - Monthly			GR - GRAB
					Value NODI															
00530	Solids, total suspended	IM - Internal Monitoring Point	0	--	Sample							=	5.0		=	5.0	19 - mg/L	01/30 - Monthly	GR - GRAB	
					Permit Req.						<=	30.0 MO AVG		<=	100.0 DAILY MX	19 - mg/L	01/30 - Monthly			GR - GRAB
					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	01/30 - Monthly			GR - GRAB
					Value NODI															
50050	Flow, in conduit or thru treatment plant	IM - Internal Monitoring Point	0	--	Sample	=	1.18	=	1.18	03 - MGD								01/30 - Monthly	IN - INSTAN	
					Permit Req.		Req Mon MO AVG		Req Mon DAILY MX	03 - MGD							01/30 - Monthly			IN - INSTAN
					Value NODI															

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: tmarkum@tva.gov
Date/Time: 2022-08-12 08:55 (Time Zone: -05:00)

Report Last Signed By

User: TMCMUTUA
Name: Tony McMutuary
E-Mail: tmcmutuary@tva.gov
Date/Time: 2022-08-15 05:35 (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 07/01/22 to 07/31/22	DMR Due Date:	08/15/22	Status:	NetDMR Validated
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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
00400	pH	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.					<=	30.0 MO AVG			<=	100.0 DAILY MX	19 - mg/L	01/01 - Daily	CP - COMPOS
					Value NODI						C - No Discharge				C - No Discharge			
00556	Oil & Grease	IM - Internal Monitoring Point	0	--	Sample													
					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			
01042	Copper, total [as Cu]	IM - Internal Monitoring Point	0	--	Sample													
					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			
01045	Iron, total [as Fe]	IM - Internal Monitoring Point	0	--	Sample													
					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

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Edit Check Errors

No errors.

Comments

Attachments

No attachments.

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 Date/Time: 2022-08-12 08:49 (Time Zone: -05:00)

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User: TMCMUTUA
 Name: Tony McMutuary
 E-Mail: tmcmutuary@tva.gov
 Date/Time: 2022-08-15 05:35 (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 07/01/22 to 07/31/22	DMR Due Date: 08/15/22	Status: NetDMR Validated			

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	1	--	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
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Tennessee Valley Authority (TVA)

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

Date/Time: 2022-08-12 08:45 (Time Zone: -05:00)

Report Last Signed By

User: TCMCUTUA

Name: Tony McMutuary

E-Mail: tmcmutuary@tva.gov

Date/Time: 2022-08-15 05:35 (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:	118 External Outfall	Discharge:	118-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 07/01/22 to 07/31/22	DMR Due Date:	08/15/22
Status:		NetDMR Validated	
Considerations for Form Completion			
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	
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.										<=	100.0 DAILY MX	19 - mg/L		02/07 - Twice Every Week	GR - GRAB
					Value NODI															
00545	Solids, settleable	1 - Effluent Gross	0	--	Sample															
					Permit Req.										<=	1.0 DAILY MX	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		C - No Discharge		C - No Discharge											

Submission Note
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Edit Check Errors
No errors.

Comments

Attachments
No attachments.

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User: TRMARKUM
Name: Travis Markum
E-Mail: tmarkum@tva.gov
Date/Time: 2022-08-12 08:38 (Time Zone: -05:00)

Report Last Signed By
User: TCMUTUA
Name: Tony McMutuary
E-Mail: tmcmutuary@tva.gov
Date/Time: 2022-08-15 05:35 (Time Zone: -05:00)