



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

January 14, 2021

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

Subject: **Sequoyah Nuclear Plant, Discharge Monitoring Report (DMR), December 2020**

Attached is the December 2020 DMR for Sequoyah Nuclear Plant.

Respectfully,

A handwritten signature in black ink, appearing to read 'T. R. Markum'.

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, TN 37379		
Permitted Feature: 101 External Outfall	Discharge: 101-G (no description)				

Report Dates & Status		Monitoring Period: From 12/01/20 to 12/31/20	DMR Due Date: 01/15/21	Status: NetDMR Validated
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Considerations for Form Completion
Primary discharge from Diffuser Pond.

Principal Executive Officer		First Name: Thomas	Title: Site 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								=	28.0	04 - deg C	99/99 - Continuous	RC - Recorder (auto)		
					Permit Req.									Req Mon DAILY MX	04 - deg C	99/99 - Continuous	RC - Recorder (auto)		
					Value NODI														
00010	Temperature, water deg. centigrade	Z - Instream Monitoring	0	--	Sample								=	15.0	04 - deg C	99/99 - Continuous	CA - CALCTD		
					Permit Req.								<=	30.5 DAILY MX	04 - deg C	99/99 - Continuous	CA - CALCTD		
					Value NODI														
00016	Temp. diff. between samp. & upstrm deg. C	1 - Effluent Gross	1	--	Sample														
					Permit Req.								<=	3.0 DAILY MX	04 - deg C	99/99 - Continuous	CA - CALCTD		
					Value NODI									9 - Conditional Monitoring - Not Required This Period					
00016	Temp. diff. between samp. & upstrm deg. C	1 - Effluent Gross	2	--	Sample								=	1.8	04 - deg C	99/99 - Continuous	CA - CALCTD		
					Permit Req.								<=	5.0 DAILY MX	04 - deg C	99/99 - Continuous	CA - CALCTD		
					Value NODI														
39516	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									9 - Conditional Monitoring - Not Required This Period					
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample	=	1753.5	=	1762.6	03 - MGD							99/99 - Continuous	RC - Recorder (auto)	
					Permit Req.		Req Mon MO AVG		Req Mon DAILY MX	03 - MGD							99/99 - Continuous	RC - Recorder (auto)	
					Value NODI														
50060	Chlorine, total residual	1 - Effluent Gross	0	--	Sample						<=	0.027 MO AVG		<=	0.047 DAILY MX	19 - mg/L	01/07 - Weekly	GR - GRAB	
					Permit Req.														
					Value NODI							B - Below Detection Limit/No Detection				B - Below Detection Limit/No Detection			
82234	Temperature rate of change deg. C/hr	Z - Instream Monitoring	0	--	Sample			=	0.2	62 - deg C/hr							99/99 - Continuous	CA - CALCTD	
					Permit Req.			<=	2.0 DAILY MX	62 - deg C/hr							99/99 - Continuous	CA - CALCTD	
					Value NODI														
TRP3B	IC25 Static Renewal 7 Day Chronic Chrceriodaphnia	1 - Effluent Gross	0	--	Sample														
					Permit Req.								>	69.0 MINIMUM	23 - %	01/30 - Monthly	CP - COMPOS		
					Value NODI									9 - Conditional Monitoring - Not Required This Period					

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, TN 37379
Permitted Feature:	103 Internal Outfall	Discharge:	103-G (no description)		

Report Dates & Status

Monitoring Period:	From 12/01/20 to 12/31/20	DMR Due Date:	01/15/21	Status:	NetDMR Validated
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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:	Site 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
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						=	8.5		=	8.5	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						<	5.0		<	5.0	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	=	1.696	=	1.696	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

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:	2021-01-13 09:48 (Time Zone: -06:00)

Report Last Signed By

User:	SWHUNNEW
Name:	Scott Hunnewell
E-Mail:	swhunnewell@tva.gov
Date/Time:	2021-01-14 10:33 (Time Zone: -06:00)

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, TN 37379		
Permitted Feature: 107 Internal Outfall	Discharge: 107-G (no description)				

Report Dates & Status

Monitoring Period: From 12/01/20 to 12/31/20	DMR Due Date: 01/15/21	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: Site Vice President	Telephone: 423-843-7001
Last Name: Marshall		

No Data Indicator (NODI)

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

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Tennessee Valley Authority (TVA)

User: TRMARKUM
 Name: Travis Markum
 E-Mail: trmarkum@tva.gov
 Date/Time: 2021-01-13 09:48 (Time Zone: -06:00)

Report Last Signed By

User: SWHUNNEW
 Name: Scott Hunnewell
 E-Mail: swhunnewell@tva.gov
 Date/Time: 2021-01-14 10:33 (Time Zone: -06:00)

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Permit #: TN0026450	Major: Yes	Permittee Address: Sequoyah Access Road, PO Box 2000 Soddy Daisy, TN 37379	Facility Location: SEQUOYAH ACCESS ROAD SODDY DAISY, TN 37379		
Permitted Feature: 118 External Outfall	Discharge: 118-G (no description)				

Report Dates & Status

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Principal Executive Officer

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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
00300	Oxygen, dissolved [DO]	1 - Effluent Gross	0	--	Sample						>=	2.0 MINIMUM				19 - mg/L	02/07 - Twice Every Week	GR - GRAB	
					Permit Req.														
					Value NODI														
00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample									<=	100.0 DAILY MX	19 - mg/L	02/07 - Twice Every Week	GR - GRAB	
					Permit Req.														
					Value NODI														
00545	Solids, settleable	1 - Effluent Gross	0	--	Sample									<=	1.0 DAILY MX	25 - mL/L	01/30 - Monthly	GR - GRAB	
					Permit Req.														
					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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Comments

Attachments
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Tennessee Valley Authority (TVA)

User: TRMARKUM
Name: Travis Markum
E-Mail: trmarkum@tva.gov
Date/Time: 2021-01-13 09:42 (Time Zone: -06:00)

Report Last Signed By

User: SWHUNNEW
Name: Scott Hunnewell
E-Mail: swhunnewell@tva.gov
Date/Time: 2021-01-14 10:33 (Time Zone: -06:00)