

Tennessee Valley Authority, Post Office Box 2000, Soddy Daisy, Tennessee 37384-2000

May 9, 2018

Chattanooga Environmental Field Office Division of Water Pollution Control 1301 Riverfront Parkway, #206 Chattanooga, Tennessee 37402-2013

TENNESSEE VALLEY AUTHORITY (TVA) - SEQUOYAH NUCLEAR PLANT (SQN) - NPDES PERMIT NO. TN0026450 - DISCHARGE MONITORING REPORT (DMR) FOR April 2018

Enclosed is the April 2018 Discharge Monitoring Report for Sequoyah Nuclear Plant. Also enclosed in Attachment 1, is information regarding a sewage spill that occurred during the reporting period. At no time was there any observed threat to public drinking supplies, human health, or the environment.

There were no exceedances during the reporting period. If you have any questions or need additional information, please contact Millicent Garland by email at mrmoore@tva.gov or by phone at (423) 843-6714.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sincerely,

Anthony L. Williams Site Vice President Sequoyah Nuclear Plant

Enclosures

cc (Enclosures): U.S. Nuclear Regulatory Commission Attn: Document Control Desk Washington, DC 20555

JEZ5 NRR

## TVA Sequoyah Nuclear Plant NPDES Permit No. TN0026450 Attachment 1

## Description of Event and Determination of Cause

On April 27, 2018, at approximately 0100, site Operations were notified of a sewage spill in the road near the Outage Control Center leading toward the TEACP. A below ground sewage tank had overflowed, resulting in about 5 gallons of sewage spilling into a nearby yard drain. The spill was contained by approximately 0120. Preliminary indications are that the local sewage pumps failed to start on a high level alarm but did start when placed in manual. Once the pumps were turned on, the tank level decreased. The sewage in the road was immediately neutralized with lime. The drain flows to the SQN Yard Drainage Pond, which discharges to the Diffuser Pond. The Diffuser Pond discharges through Outfall 101 to the Tennessee River. At no time was there any observed threat to the public drinking water supplies, to human health, or the environment.

## Steps Taken to Reduce, Eliminate, and Prevent Reoccurrence

The incident was entered into the TVA Corrective Action Program. A work order has been prepared to evaluate the cause of the failure of the pumps to respond to the high level alarm.

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different) Name TVA - SEQUOYAH NUCLEAR PLANT Address P.O. BOX 2000			NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) DISCHARGE MONITORING REPORT (DMR)				S) -MAJOR Form Approv (SUBR 01) OMB No. 20					
(INTEROFFICE OPS-5N-SQN)			TNC	026450		101 G	F - FINAL					
SODDY - DAISY, TN 37384			PERMI	T NUMBER	DISCHAR	GE NUMBER	DIFFUSER DISCHARGE					
FacilityTVA - SEQUOYAH NUCLEAR	<u>PLANT</u> _			NON			EFFLUENT					
Location HAMILTON COUNTY	<b></b>		YEAR		TORING PERIOD							
ATTN:Millicent Garland			From 18	04 01		04 30	*** NO DISCHARC NOTE: Read instru		*** e comp	leting this form	m.	
PARAMETER		QUAI	NTITY OR LOADING			QUALITY OR CO	DICENTRATION		NO. EX	FREQUENCY	SAMPLE TYPE	
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS		ANALYSIS		
TEMPERATURE, WATER DEG. CENTIGRADE	SAMPLE MEASUREMENT	******	*******	**	*****	*****	29.6	04	0	30 / 30	RCORDR	
00010 1 0 EFFLUENT GROSS	PERMIT REQUIREMENT	*****	*****	****	******	******	Req. Mon. DAILY MAX	DEG. C.		CONTI NUOUS	CALCTD	
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50050 1 0 EFFLUENT GROSS	PERMIT REQUIREMENT	*****	Req. Mon. DAILY MAX	MGD	*****	******	*****	****		CONTI NUOUS	RCORDR	
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50050 1 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	Req. Mon. MO AVG	******	<sup>′</sup> MGD	*****	******	******	MGD		CONTI NUOUS	CALCTD	
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT	*****	******	**	******	0.021	0.040	19	0	19/30	GRAB	
50060 1 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	******	****	*****	0.1 MO AVG	0.1 DAILY MAX	MG/L		FIVE PER WEEK	CALCTD	
TEMPERATURE - C, RATE OF CHANGE	SAMPLE MEASUREMENT	******	0.4	62	****	*******		**	0	30 / 30	CALCTD	
82234 1 0 EFFLUENT GROSS	PERMIT REQUIREMENT	*****	2.0 DAILY MX	DEG C/HR	*****	******	*****	****		CONTI NUOUS	CALCTD	

	I Certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that gualified	0 $1$	TE	LEPHONE		DATE	
Anthony L. Williams	personnel properly gather and evaluate the information submitted. Based on my inquiry of the	foods II					
Site Vice President	the information, the information submitted is , to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false	Site Vice President	423	843-7001	18	05	09
TYPED OR PRINTED	information, including the possibility of fine and imprisonment for knowing violations.	OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY

No closed mode operation. The following injections occurred: Spectrus BD 1500 (max calc. was 0.047 mg/mL, limit is 2.0 mg/mL) and Flogard MS 6236 (max calc. was 0.043 mg/mL, limit is 0.20 mg/mL).

EPA Form 3320-1 (REV 3/99) Previous editions may be used

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PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different) Name TVA - SEQUOYAH NUCLEAR PLANT Address P.O. BOX 2000		NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) DISCHARGE MONITORING REPORT (DMR)				<sup>)</sup> MAJOR (SUBR 01)			Form Approved. OMB No. 2040-0004			
(INTEROFFICE OPS-5N-SQ		· <u> </u>	TNC	026450		101 T	F - FINAL					
SODDY - DAISY, TN 37384				T NUMBER	DISCHAR	GE NUMBER	BIOMONITORING FOR OUTFALL 101					
Facility TVA - SEQUOYAH NUCLEA	R PLANT						EFFLUENT					
Location HAMILTON COUNTY			YEAR		TORING PERIOD							
ATTN:Millicent Garland			From <b>18</b>	04 0 <sup>4</sup>		04 30	*** NO DISCHAR NOTE: Read inst	L	***	leting this form	n	
PARAMETER		QUA	NTITY OR LOADING			QUALITY OR CO	ONCENTRATION		NO. EX	FREQUENCY	SAMPLE	
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS		ANALYSIS		
IC25 STATRE 7DAY CHR CERIODAPHNIA	SAMPLE MEASUREMENT	******	******	**	Monitoring Not Required	******	****	23				
TRP3B 1 0 EFFLUENT GROSS	PERMIT REQUIREMENT	*****	*****	****	42.8 MINIMUM	*****	******	PERCENT		SEMI ANNUAL	COMPOS	
IC25 STATRE 7DAY CHR PIMEPHALES	SAMPLE MEASUREMENT	****	******	**	Monitoring Not Required	******	******	23				
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Anthony L. Williams	personnel properly gather and evaluate the information submitted. Based on my inquiry of the	A-ha Site Vice President					
Site Vice President	the information, the information submitted is , to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false		423	843-7001	18	05	09
TYPED OR PRINTED	information, including the possibility of fine and imprisonment for knowing violations.	OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY
COMMENTS AND EXPLANATION OF ANY AND AT							

Toxicity was not sampled in April 2018.

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)          Name       TVA - SEQUOYAH NUCLEAR PLANT         Address       P.O. BOX 2000			NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) DISCHARGE MONITORING REPORT (DMR)				MAJOR (SUBR 01)			Form Approved. OMB No. 2040-0004				
(INTEROFFICE OPS-5N-SQN) SODDY - DAISY, TN_37384		 		026450	DISCHAR	103 G RGE NUMBER	F - FINAL LOW VOL. WAST	STE TREATMENT POND						
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SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	******	***	**	*******	<2.5	<2.5		19	0	1 / 30	GF	RAB	
00530 1 0 EFFLUENT GROSS	PERMIT REQUIREMENT	*****	*****	**	*****	30.0 MO AVG	100.0 DAILY MX		IG/L		ONCE/ MONTH	_	RAB	
OIL AND GREASE	SAMPLE MEASUREMENT	******	******	**	******	<5.0	<5.0		19	0	1 / 30	GF	RAB	
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Anthony L. Williams	direction or super personnel properl	y gather and evaluate th who manage the system	h a system designed to as e information submitted. I n, or those persons direct	Based on my inc	uiry of the	Site Vice P	ム IIF							
Site Vice President	the information, th accurate, and con	e information submitted	is, to the best of my know here are significant penalt and imprisonment for kn	wledge and belie ties for submittin	of, true, <b>TUII</b> g false SIGN	ATURE OF PRINC	CIPAL EXECUTIVE	423		3-7001	18	05	09	
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COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

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PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different) Name TVA - SEQUOYAH NUCLEAR PLANT Address P.O. BOX 2000		NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) DISCHARGE MONITORING REPORT (DMR)				MAJOR (SUBR 01)			Form Approved. OMB No. 2040-0004				
(INTEROFFICE OPS-5N-SQN)		·	TNC	026450		110 G	F - FINAL						
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Site Vice President	the information, the information submitted is , to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalities for submitting false	SIGNATURE OF PRINCIPAL EXECUTIVE	423	843-7001	18	05	09
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No Discharge this Period

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PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)          Name       TVA - SEQUOYAH NUCLEAR PLANT         Address       P.O. BOX 2000			NATIONAL POLLU DIS	JTANT DISCH	MAJOR (SUBR 01)			Form Approved. OMB No. 2040-0004			
				026450 T NUMBER	DISCHAR	110 T GE NUMBER	F - FINAL RECYCLED COOLI	ING WATER			
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No Discharge this Period

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)          Name       TVA - SEQUOYAH NUCLEAR PLANT         Address       P.O. BOX 2000			NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) DISCHARGE MONITORING REPORT (DMR)							Form Approved. OMB No. 2040-0004			
(INTEROFFICE OPS-5N-SQN)			TN	026450		118 G	F - FINAL						
SODDY - DAISY, TN_37384				T NUMBER	DISCHAR	GE NUMBER	WASTEWATER & S	TORM WA	TER				
Facility TVA - SEQUOYAH NUCLEAR							EFFLUENT						
Location HAMILTON COUNTY			VEAD		TORING PERIOD		EFFLUENT						
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PARAMETER		ALIQ	TITY OR LOADING		[	QUALITY OR CO	DNCENTRATION		NO.	FREQUENCY			
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FLOW, IN CONDUIT OR THRU TREATMENT PLANT	MEASUREMENT			03			*******	**					
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TYPED OR PRINTED			CODE	NUMBER			

During this reporting period, there has been no flow from the Dredge Pond other than that resulting from rainfall. No Discharge this Period.

NUMBER YEAR