

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

December 14, 2012

Ms. Christina Morgan Tennessee Department of Environment and Conservation Division of Water Pollution Control Enforcement & Compliance Section 6th Floor, L & C Annex 401 Church Street Nashville, Tennessee 37243

Dear Ms. Morgan:

TENNESSEE VALLEY AUTHORITY (TVA) - SEQUOYAH NUCLEAR PLANT (SQN) - NPDES PERMIT NO. TN0026450 - DISCHARGE MONITORING REPORT (DMR) FOR NOVEMBER 2012

Enclosed is the November 2012 Discharge Monitoring Report for Sequoyah Nuclear Plant. The turbine building sump (TBS) discharged directly to the yard drainage pond during the reporting period and was monitored in accordance with the narrative condition found in Part 1.A.2. of the subject permit.

Also enclosed are two attachments containing information regarding a collection system overflow that occurred during the reporting period, TBS monitoring data, and an update for previously reported collection system overflows. At no time has there been any observed threat to public drinking supplies, to human health, or the environment.

If you have any questions or need additional information, please contact Brad Love by email at bmlove@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.

Siricerely. . Carlin Site Vice President Sequoyah Nuclear Plant

Enclosures cc (Enclosures): Chattanooga Environmental Field Office Division of Water Pollution Control State Office Building, Suite 550 540 McCallie Avenue Chattanooga, Tennessee 37402-2013

U.S. Nuclear Regulatory Commission Attn: Document Control Desk Washington, DC 20555

IEJEL

TVA Sequoyah Nuclear Plant NPDES Permit No. TN0026450 Attachment 1

Description of the Event and Determination of Cause

On 11/25/2012 at 22:13 EDT the Sequoyah (SQN) Shift Manager was notified of a low-flow sewage overflow coming from a manhole located in the roadway between the Plant Office Building, Multi-Purpose Building, and Security Building. The shift manager initiated the SQN Spill Plan and dispatched personnel to investigate. An intermittent stream of sewage was discovered flowing out of the manhole and running approximately 20 feet across the road before it reached a yard drain. On 11/25/2012 at 22:30 EDT the sewage overflow was stopped from entering the yard drain. All remaining sewage residue in the road was neutralized with lime. The yard 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 supplies, to human health, or the environment.

The total quantity of sewage that overflowed into a yard drain was estimated to be less than 5 gallons. The overflow was caused by a mass of foreign material becoming entangled around the ejector pump float switch. The ejector pump float switch became locked in the high level position and the pump continued to run. The ejector pump eventually tripped due to overheating which led to an associated trip of the high level alarm.

Period of Discharge

The shift manager was notified of the overflow on 11/25/2012 at 22:13 EDT. The sewage overflow was entering the yard drain as personnel responding to the spill arrived. The sewage was stopped from entering the yard drain on 11/25/2012 at 22:30 EDT. The estimated time of discharge was approximately 17 minutes.

Steps Being Taken to Reduce, Eliminate, and Prevent Recurrence

This incident was entered into the TVA Corrective Action Program. Sequoyah continues daily monitoring of sewage ejector pump locations to ensure control power has not been isolated and has added visual inspections of associated manholes to verify the absence of foreign material which may cause ejector pump issues.

TVA Sequoyah Nuclear Plant NPDES Permit No. TN0026450 Attachment 2

Turbine Building Sump Monitoring Data

The turbine building sump was discharged directly to the yard drainage pond from 11/10/2012 to 11/15/2012. During this period, the turbine building sump was monitored in accordance with the narrative condition found in Part 1.A.2 of NPDES Permit TN0026450.

Parameter	Daily Minimum	Monthly Average	Daily Maximum	No. of Samples
Flow	-	0.480 MGD	1.150 MDG	6
рН	8 s.u.	-	8 s.u.	5
O&G	-	< 4 mg/L	< 6 mg/L	5
TSS	-	4 mg/L	7 mg/L	5

Update on Previously Reported Sewage Collection System Overflows

SQN is herein providing an update regarding sewage collection system overflow events previously reported to the Division. Each event was entered into the TVA Corrective Action Program, and an investigation was initiated to determine the cause(s). Throughout the investigation and the duration of the Steam Generator Replacement outage, Sequoyah has implemented shiftly monitoring of onsite sewage ejectors as an added precaution.

SQN determined the sewage collection system overflows had two apparent causes. The investigation indicated there was no consistent method to inform secondary and tertiary electrical feeds when switching circuit breakers of primary electrical systems. The investigation also indicated there are potential opportunities to improve the inspection program. As a result, TVA will elicit the involvement of a Grade I collection system operator to review the existing system and provide recommendations for necessary upgrades to the material condition and inspection program. The review will include at a minimum an evaluation of current alarm system design and inspection program scope and frequency. In addition, measures will be taken by site personnel to improve response awareness and ensure prompt and appropriate actions continue to be taken.

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COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

No closed mode operation. Veliger monitoring data is included as an attachment. The following injections occurred: 1. Floguard MS6236 (max. calc conc. was 0.103mg/L--limit 0.2mg/L), 2. Biodetergent 73551 (max. calc. conc. was 0.051mg/L--limit 2.0mg/L)

Sample Date	Mean # of ZM/m3	% Settlers	Water Temp. (°C)	Sample Date	Mean# of Asiatic Clams/m3	Water Temp. (°C)	LOCATION	NOTES: % Gravid Asiatic Clam	COLLECTED BY
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01/31/2012	0	0	17.6	01/31/2012	0	17.6	1-25-545		CR
02/07/2012	0	0	12	02/07/2012	0	12	1-25-545		BB
02/14/2012	0	0	8.3	02/14/2012	0	8.3	1-24-1234		WE
02/21/2012	0	0	26.5	02/21/2012	0	26.5	1-25-545		CR
02/28/2012	0	0	11.1	02/28/2011	0	11.1	1-ISV-24-1234		WBE
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10/23/2012	394	8	17	10/23/2012	82	17	1-ISV-24-1234		WAW
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Toxicity was not sampled in November 2012.

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COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

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50050 1 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	* ******	Req. Mon. DAILY MX	MGD	******	******	******	**		CONTIN	RCORDR		
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT	******	******	**	******			19					
50060 1 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	*****	**	******	0.1 MO AVG	0.1 DAILY MX	MG/L		Five per Week	CALCTD		
TEMPERATURE - C, RATE OF CHANGE	SAMPLE MEASUREMENT	******		04	******	******	******	**					
82234 1 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	2 DAILY MX	DEG C	******	******	******	- **		CONTIN UOUS	CALCTD		
	SAMPLE MEASUREMENT				· · · · · ·								
	PERMIT . REQUIREMENT	·····		-			· · · · ·						
NAME/TITLE PRINCIPAL EXECUTIVE OF		alty of law that this de		ts were prepared	tunder my	AIA		TELEPH		·			
John T. Carlin	direction or superv properly gather an	vision in accordance w d evaluate the inform	with a system designed to a ation submitted. Based on se persons directly respon	ssure that qualit my inquiry of the	ied personnel	Xelf	Prosident						
Site Vice President	information, the in and complete. I an	formation submitted is n aware that there are	, to the best of my knowle significant penalties for su isonment for knowing viola	dge and belief, t Ibmitting false in	rue, accurate, formation,SIGN				3-7001		12 14		
TYPED OR PRINTED					U, U			CODE	JMBER		MO DAY		

No Discharge this Period

Name TVA - SEQUOYAH NUCLEA	PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different) Name TVA - SEQUOYAH NUCLEAR PLANT Address P.O. BOX 2000				ARGE ELIMINATION		MAJOR (SUBR 01)	rm Approve MB No. 2040							
(INTEROFFICE OPS-5N-SQN)		· ·	TN	0026450		110 T	F - FINAL								
SODDY - DAISY_TN_37384		_	PERM	IT NUMBER	DISCHA	RGE NUMBER	RECYCLED COO		ER						
Facility TVA - SEQUOYAH NUCLEAR P			r												
Location HAMILTON COUNTY			YEAD		TORING PERIO		EFFLUENT								
ATTN: Brad Love			From 12	11 01		MO DAY 11 30	*** NO DISCHARGE XX *** NOTE: Read instructions before completing this form.								
PARAMETER		QUAI	TITY OR LOADING			QUALITY OR C	ONCENTRATION		FREQUENC						
	\mid $>$ \mid	AV (504.05							EX	OF ANALYSIS	TYPE				
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS	5	140-1-0.0					
IC25 STATRE 7DAY CHR CERIODAPHNIA	SAMPLE MEASUREMENT	. *******	******	**		******	******	23							
TRP3B 1 0 0	PERMIT	*******	******	****	43.2	******	*******	PERCE	NT	SEMI	COMPOS				
EFFLUENT GROSS VALUE	REQUIREMENT				MINIMUM					ANNUAL	_				
IC25 STATRE 7DAY CHR PIMEPHALES	SAMPLE MEASUREMENT	******	******	**		******	******	.23							
TRP6C 1 0 0	PERMIT	******	******	****	43.2	******	******		NT	SEMI	COMPOS				
EFFLUENT GROSS VALUE	REQUIREMENT				MINIMUM					ANNUAL					
	SAMPLE MEASUREMENT														
	PERMIT REQUIREMENT	•					· ·								
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NAME/TITLE PRINCIPAL EXECUTIVE OF	direction or super	vision in accordance w	cument and all attachme ith a system designed to	assure that quali	fied personner	XAC			PHONE		DATE				
John T. Carlin	properly gather a	nd evaluate the information or the	tion submitted. Based or	my inquiry of the	e person or	Xece									
Site Vice President	information, the in and complete. I a	nformation submitted is m aware that there are	, to the best of my knowle	persons directly responsible for gathering the to the best of my knowledge and belief, true, accurate, gnificant penalties for submitting false information, noment for knowing violations					843-7001 NUMBER		12 14				
TYPED OR PRINTED										YEAR	MO DAY				

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) No Discharge this Period

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Name TVA - SEQUOYAH NUCLE	ERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different) ame TVA - SEQUOYAH NUCLEAR PLANT ddress P.O. BOX 2000			NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) DISCHARGE MONITORING REPORT (DMR)						orm Approve MB No. 2040	
(INTEROFFICE OPS-5N-SQN)			TNC	0026450		118 G	F - FINAL				
SODDY - DAISY, TN 37384			PERM	T NUMBER	DISCH	ARGE NUMBER	WASTEWATER &	STORM W	/ATER		
Facility	PLANT										
Location HAMILTON COUNTY			VEAD		TORING PERI		EFFLUENT				
ATTN: Brad Love			From 12	MO DA 11 01		R MO DAY 11 30	*** NO DISCHA NOTE: Read in:	L	C ***	etina this for	m
PARAMETER		QUAN	TITY OR LOADING			QUALITY OR C	ONCENTRATION			FREQUENC	Y SAMPLE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS		ANALYSIS	
OXYGEN, DISSOLVED (DO)	SAMPLE MEASUREMENT	******	*****	**		******	******	19			+
00300 1 0	PERMIT	******	******	****	2	******	******	 MG/L		TWICE/	GRAB
EFFLUENT GROSS	REQUIREMENT			1	MINIMUN					WEEK	
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	******	******	**	*******	*******		19	_		
00530 1 0	PERMIT	******	******	****	******	******	100	MG/L		TWICE/	GRAB
EFFLUENT GROSS	REQUIREMENT									WEEK	
SOLIDS, SETTLEABLE	SAMPLE MEASUREMENT	****	*****	**	******	*****		25			
00545 1 0 EFFLUENT GROSS	PERMIT REQUIREMENT	******	******	****	******	******	.1 DAILY MX	ML/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT			03	******	******	*******	**	-		
50050 1 0 EFFLUENT GROSS	PERMIT REQUIREMENT	Req. Mon. MO AVG	Req. Mon. DAILY MX	MGD	******	******	*****	•		ONCE/ BATCH	ESTIMA
	SAMPLE MEASUREMENT								-	Driton	
	PERMIT REQUIREMENT			-		· · ·					
	SAMPLE MEASUREMENT				<u> </u>						
	PERMIT REQUIREMENT	· ·		-		· · ·					
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	······································		· .							
NAME/TITLE PRINCIPAL EXECUTIVE OF						201		TELEI	PHONE		DATE
John T. Carlin	properly gather a persons who ma	rvision in accordance will and evaluate the informat nage the system, or thos information submitted is .	tion submitted. Based on e persons directly respor	my inquiry of th sible for gather	e person or ing the	Site Vice I	President	423	843-7001	12	12 14
Site Vice President	and complete. I a	am aware that there are s	significant penalties for si	ubmitting false in		IGNATURE OF PRIN					
TYPED OR PRINTED	including the pos	sibility of fine and impris	onment for knowing viola	mons.		OFFICER OR AUT	HORIZED AGENT	AREA	NUMBER	YEAR	MO DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

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