

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

July 12, 2006

State of Tennessee
Department of Environment and Conservation
Division of Water Pollution Control
Enforcement & Compliance Section
6<sup>th</sup> Floor, L & C Annex
401 Church Street
Nashville, Tennessee 37243-1534

Attention: Mr. Chip Hannah

Dear Mr. Hannah:

SEQUOYAH NUCLEAR PLANT - DISCHARGE MONITORING REPORT FOR JUNE 2006

Enclosed is the June 2006 Discharge Monitoring Report for Sequoyah Nuclear Plant. Please contact me at (423) 843-6700 if you have any questions or comments.

Stephanie a. Hervard

Stephanie A. Howard

Principal Environmental Engineer

Signatory Authority for

J. Randy Douet

Site Vice President

Sequoyah Nuclear Plant

**Enclosure** 

cc (Enclosure):

Chattanooga Environmental Assistance Center 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, D.C. 20555

IE25

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different Name TVA - SEQUOYAH NUCLEAR PLANT	ent) NATION	AL POLLUTANT DISCHA DISCHARGE MO	ARGE ELIMINATION S NITORING REPOR		MAJOR (SUBR 01)			rm Approved. MB No. 2040-0	
Address P.O. BOX 2000 (INTEROFFICE SB-2A)		TN0026450		101 G	F - FINAL				•
SODDY - DAISY • TN 37384		PERMIT NUMBER	DISCHA	RGE NUMBER	DIFFUSER DISCHA	RGE			
Facility TVA - SEQUOYAH NUCLEAR PLANT Location HAMILTON COUNTY		MONI	TORING PERIO	D	EFFLUENT				
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	I Certify under penalty of law that this document and all attachments were prepared under my	14 1 Odlar 2017	TE	LEPHONE		DATE	
	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	stephaniell. Howard					Ī
	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,	Principal Environmental Engineer	423	843-6700	06	07	12
	accurate, and complete. I am aware that there are significant penalties for submitting false	SIGNATURE OF PRINCIPAL EXECUTIVE					<u> </u>
TYPED OR PRINTED	information, including the possibility of fine and imprisonment for knowing violations.	OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	МО	DAY

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

No closed mode operation. The following information is included in an attachment: 1. thermal compliance information 2. CCW data 3. veliger monitoring data. The following injections occured: 1. PCL-222 Copolymer (max. calc. conc. was 0.014mg/L—limit 0.2mg/L) 2. PCL-222 Phosphate (max. calc. conc. was 0.041mg/L—limit 0.2mg/L)

## June 2006 DMR Attachment

## June 2006 Thermal Compliance Information

June 1-30: The downstream temperature and temperature rate-of-change are based on measurements from Station 8, the "backup temperature monitor" located at the end of the mixing zone (TRM 483.4). The temperature rise is based on the increase in temperature from measurements at Station 14, located upstream of the plant (TRM 490.5), and measurements at Station 8 (TRM 483.4). Consistent with the permit, measurements reported for the downstream temperature and the temperature rise represent daily maximum 24-hour rolling averages; and, measurements reported of the temperature rate-of-change represent 1-hour averages. Measurements were used rather than the numerical modeling system because of relatively low river flows. TVA has learned as a result of the continuing studies performed under Part III.G. of the permit that under low flow conditions, adjustments may be needed in the formulation of numerical model to improve its accuracy. Until river flows increase or appropriate model adjustments can be made, the modeling system is considered "out of service".

## June 2006 CCW Data

CCW TRENCH				
Date/Time Collected	Extractable Petroleum Hydrocarbons	Analysis Date/Time	Analyst	Method
06/13/2006 @ 1330	0.7 mg/L	06/20/2006 @ 0146	KAL	EPA 8015B
CCW CHANNEL				
Date/Time Collected	Extractable Petroleum Hydrocarbons	Analysis Date/Time	Analyst	Method
06/13/2006 @ 1335	<0.5 mg/L	06/20/2006 @ 0224	KAL	EPA 8015B

## June 2006 Veliger Monitoring Information

Sample Date	Mean # of ZM/m³	% Settlers	Water Temp. (°C)	Sample Date	Mean# of Asiatic Clams/m³	Water Temp. (°C)	LOCATION	SUB LOCATION	NOTES: % Gravid Asiatic Clam	COLLECTED BY
06/02/2006	0	0	23	06/02/2006	986	23	Inplant			Dickie Adcock
06/06/2006	65	50	24	06/06/2006	889	24	Inplant			Dickie Adcock
06/08/2006	0	0	23	06/08/2006	97	23	Inplant			Dickie Adcock
06/14/2006	0	0	25	06/14/2006	48	25	Inplant			Dickie Adcock
06/16/2006	48	33	25	06/16/2006	129	25	Inplant			Dickie Adcock
06/20/2006	32	0	26	06/20/2006	162	26	Inplant			Dickie Adcock
06/23/2006	97	33	27	06/23/2006	113	27	Inplant			Dickie Adcock
06/27/2006	0	_0	27	06/27/2006	97	27	Inplant			Dickie Adcock
06/29/2006	291	55	26_	06/29/2006	113	26	Inplant			Dickie Adcock

Iden ITTEE NAME/ADDRESS (Include Palame TVA - SEQUOYAH NUCLE Address P.O. BOX 2000		it Different)	DISC	HARGE MC	NITORING REPORT	(DMR)	MAJOR (SUBR 01)			OMB No. 204		
(INTEROFFICE SB-2A) SODDY - DAISY • TN 3738				026450 NUMBER	DISCHAR	101 G GE NUMBER	F - FINAL DIFFUSER DISCH	ARGE				
acility TVA - SEQUOYAH NUCLEAR ocation HAMILTON COUNTY	PLANT	<del></del>		MON	ITORING PERIOD		EFFLUENT		•			
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J. Randy Douet	properly gather a	and evaluate the informati mage the system, or those	h a system designed to as on submitted, Based on m persons directly respons	ly inquiry of the	ing the De	phance () incipal Environm	Herrard					
Site Vice President	information, the i	information submitted is , emplete. I am aware that the	to the best of my knowled nere are significant penalti and imprisonment for kn	ge and belief, ies for submitti	true, ing false SIGN	ATURE OF PRINC	CIPAL EXECUTIVE	423	843-670		07	12
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COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

The following injections occurred: 3. Biodetergent 73551 (max. calc. conc. was 0.012mg/L—limit 2.0mg/L) 4. PCL-401 (max. calc. conc. was 0.008mg/L—limit 0.2mg/L) 5. H-150M (max. calc. conc. was 0.036mg/L—limit 0.050mg/L) 6. H-150M (low detection level analytical method was <0.020mg/L—limit 0.050mg/L)

PERMITTEE NAME/ADDRESS (Include Name TVA - SEQUOYAH NUCL		DISCHARGE MONITORING REPORT (DMR)			MAJOR (SUBR 01)			rm Approved MB No. 2040			
Address P.O. BOX 2000 (INTEROFFICE SB-2A)		- <del></del>		026450		101 Q	F-FINAL				
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Site Vice President	information, the accurate, and co	information submitted is , empiete. I am aware that t	e persons directly respons to the best of my knowled here are significant penalt e and imprisonment for kn	ge and belief, lies for submit	true,		CIPAL EXECUTIVE		43-6700		07 12
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J. Randy Douet	properly gather a	and evaluate the informat mage the system, or thos	th a system designed to as tion submitted. Based on n e persons directly respons to the best of my knowled	ny inquiry of the	ing the Pri	Phave ( incipal Environm	A. Haward Pental Engineer		3-6700	06	07 40			
Site Vice President	accurate, and co	emplete. I am aware that t	to the best of my knowled here are significant penalt e and imprisonment for kn	ies for submitt	ting false SIGN	ATURE OF PRINC	CIPAL EXECUTIVE			06	07   12			
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EPA Form 3320-1 (REV 3/99)

Previous editions may be used

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) MAJOR

Page 1 of 1

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J. Randy Douet	direction or supe	ervision in accordance with	h a system designed to as ion submitted. Based on m	sure that qualif	fied personnel   /	tephanie	U. Heward	[ recept	JOHE	+	2015	
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Site Vice President	accurate, and co	emplete. I am aware that the	to the best of my knowled here are significant penalt	ies for submittir	ng false SIG		CIPAL EXECUTIVE	423   8	13-6700 	_   00	07	12
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COMMENTS AND EXPLANATION OF ANY	VIOLATIONS (Poten	ance all attachments h	em)	<del></del>				1 0002				

(SUBR 01)

DISCHARGE MONITORING REPORT (DMR)

PCBs were sampled on 06/23/2006 @ 0845.

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

TVA - SEQUOYAH NUCLEAR PLANT

Form Approved.

OMB No. 2040-0004

Address   P.O. BOX 2000   (INTEROFFICE SB-2A)   SODDY - DAISY			026450 T NUMBER	DISCHAR	103 G	(SUBR 01) F - FINAL	•		•	
SODDY - DAISY . TN 37384  Facility TVA - SEQUOYAH NUCLEAR PLANT				DISCHAR	100 0					
Facility TVA - SEQUOYAH NUCLEAR PLANT		T LIXIVII	LINOINDEL		GE NUMBER	LOW VOL. WASTI	F TREATME	NT PO	חא	
Location HAMILTON COUNTY	·					EFFLUENT	2 11 (2) (1)			
		YEAR	MONI	TORING PERIOD Y YEAR				,		
ATTN: Stephanie A. Howard		From 06	06 01		06 30	*** NO DISCHA	RGE	***		
						NOTE: Read in:	structions befo	<u>_</u>		
PARAMETER	QUAN	ITITY OR LOADING	•		QUALITY OR CO	NCENTRATION		NO.	FREQUENCY OF	SAMPLE TYPE
	AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS		ANALYSIS	
PH SAMPLE MEASUREM	******** NT .	*****	**	6.9	*****	9.0	12	0	13/30	GRAB
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OIL AND GREASE SAMPLE MEASUREM	<44	<49	26	****	<5	<5	19	0	4/30	GRAB
00556 1 0 0  EFFLUENT GROSS VALUE  REQUIREME	NT	250 DAILY MX	LBS/DY		15 MO AVG	20 DAILY MX	MG/L		WEEKLY	GRAB 1
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PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

Form Approved.

PERMITTE	E NAME/ADDRESS (Include Facility Name/Location if Different)
Name	TVA - SEQUOYAH NUCLEAR PLANT
Address_	P.O. BOX 2000
	(INTEROFFICE SB-2A)
	SODDY - DAISY , TN 37384
Facility	TVA - SEQUOYAH NUCLEAR PLANT
Location	HAMILTON COUNTY
	<del></del>
ATTN: St	ephanie A. Howard

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

(CLIPP)

TN0026450

PERMIT NUMBER

107 G DISCHARGE NUMBER Form Approved.
OMB No. 2040-0004

F - FINAL METAL CLE

(SUBR 01)

METAL CLEANING WASTE POND

**EFFLUENT** 

\*\*\* NO DISCHARGE XX \*\*\*

NOTE: Read instructions before completing this form.

QUANTITY OR LOADING QUALITY OR CONCENTRATION FREQUENCY SAMPLE PARAMETER NO. EX TYPE ANALYSIS **AVERAGE** MAXIMUM UNITS MINIMUM **AVERAGE** MAXIMUM UNITS PH SAMPLE \*\*\*\*\*\* \*\*\*\*\*\* \*\*\*\*\*\* \*\* 12 MEASUREMENT PERMIT \*\*\* SU **GRAB** \*\*\*\*\*\* 6.0 DAILY 00400 \*\*\*\*\*\* \*\*\*\*\*\* 9.0 REQUIREMENT EFFLUENT GROSS VALUE MINIMUM MAXIMUM SOLIDS, TOTAL SUSPENDED SAMPLE \*\*\*\*\*\* \*\*\*\*\* \*\*\*\*\* \*\*\*\*\*\* \*\* 19 MEASUREMENT PERMIT \*\*\*\* MG/L DAILY COMPOS \*\*\*\*\*\* \*\*\*\*\*\* 00530 1 0 \*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\* 30 REQUIREMENT **EFFLUENT GROSS VALUE** DAILY MX SAMPLE OIL AND GREASE \*\*\*\*\*\* \*\* 19 MEASUREMENT 00556 0 PERMIT: \*\*\*\*\* \*\*\*\*\* \*\*\*\* \*\*\*\*\* \*\*\*\*\* MG/L DAILY GRAB: 1 15. REQUIREMENT: EFFLUENT GROSS VALUE DAILY MX PHOSPHORUS, TOTAL (AS P) SAMPLE \*\*\*\*\*\* \*\*\*\*\*\* \*\*\*\*\* \*\*\*\*\*\* \*\* 19 MEASUREMENT PERMIT MG/L COMPOS 00665 1 0 \*\*\* DAILY ? \*\*\*\*\*\* \*\*\*\*\*\* \*\*\*\*\* \*\*\*\*\*\* 1.0 REQUIREMENT EFFLUENT GROSS VALUE DAILY MX COPPER, TOTAL (AS CU) SAMPLE \*\*\*\* \*\*\*\*\* \*\*\*\*\* \*\*\*\*\*\* \*\* 19 MEASUREMENT 01042 1 0 PERMIT-\*\*\*\*\* \*\*\*\*\* \*\*\* \*\*\*\* \*\*\*\*\* MG/L DAILY COMPOS 1.0 REQUIREMENT EFFLUENT GROSS VALUE DAILY MX IRON, TOTAL (AS FE) SAMPLE \*\*\*\*\* \*\*\*\*\* \*\*\*\*\* \*\*\*\*\* \*\* 19 MEASUREMENT 01045 1 0 0 \*\*\* PERMIT. . . . \*\*\*\*\*\*\* STERRARRARRA \*\*\*\* \*\*\*\*\*\* \*\*\*\*\*\* 1.0 MG/L DAILY COMPOS REQUIREMENT **EFFLUENT GROSS VALUE** DAILY MX FLOW, IN CONDUIT OR THRU \*\*\*\*\* SAMPLE \*\*\*\*\* \*\*\*\*\* 03 MEASUREMENT TREATMENT PLANT \*\*\*\* DAILY 50050 1 0 0 PERMIT. REPORT MGD \*\*\*\*\* \*\*\*\*\* \*\*\*\*\* CALCTD REPORT REQUIREMENT EFFLUENT GROSS VALUE MO AVG DAILY MX

	I Certify under penalty of law that this document and all attachments were prepared under my	He do to Old sold	TEI	LEPHONE		DATE	
	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	stephanie U. Hervard	-				
	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,	Principal Environmental Engineer	423	843-6700	06	07	12
	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.	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	4254		VEAG		1-00
TYPED OR PRINTED		OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	МО	DAY

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

No Discharge this Period

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different) Name TVA - SEQUOYAH NUCLEAR PLANT			NATIONAL POLLU DISC	Form Approved. OMB No. 2040-0004							
Address P.O. BOX 2000 (INTEROFFICE SB-2A)			TNO	026450		110 G F	- FINAL				
SODDY - DAISY TN 37384		<del></del>	<del></del>	T NUMBER	DISCHAR	110 0	RECYCLED COOLIN	G WATER	,		
acility TVA - SEQUOYAH NUCLEAR PLANT		<del></del>	FERIVII	1 MOINIDEL	L DISCHAR			OWAILI	`		
ocation HAMILTON COUNTY		- <del></del>			TORING PERIOD		FFLUENT				
ATTN: Stephanie A. Howard			From 06	MO DA 06 01		MO DAY 06 30	*** NO DISCHARG		***	. 4) AL I - P	
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	SAMPLE ASUREMENT	*****	****	**	****	*****		19			
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ĺ		I Certify under penalty of law that this document and all attachments were prepared under my	n designed to essure that qualified personnel ted. Based on my inquiry of the person or directly responsible for gathering the tof my knowledge and belief, true, graiticant penalties for submitting false scorneet for knowledge and submitted fallows.	LEPHONE		DATE		
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l	Sita Vice Brookent	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,	Principal Environmental Engineer	423	843-6700	06	07	12
Site vice President	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.						Щ.	
I	TYPED OR PRINTED	anomator, according to possibility of the anomator interaction to knowing stolations.	OFFICER OR AUTHORIZED AGENT	CODE	NUMBER	YEAR	МО	DAY

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

No Discharge this Period .

EFFLUENT GROSS VALUE

SAMPLE MEASUREMENT

PERMIT-REQUIREMENT

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)  Name TVA - SEQUOYAH NUCLEAR PLANT  Address P.O. BOX 2000				HARGE MO	ARGE ELIMINA ONITORING F			MAJOR (SUBR 01)		Form Approved. OMB No. 2040-0004				
(INTEROFFICE SB-2A) SODDY - DAISY TN 37384				0026450 T NUMBER		110 T DISCHARGE NUMBER		F - FINAL RECYCLED COOLING WATER						
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J. Randy Douet Site Vice President	properly gather a persons who man information, the i	and evaluate the informati nage the system, or those information submitted is ,	ion submitted. Based on many persons directly respons to the best of my knowled	ny inquiry of the ible for gatheri ge and belief, I	hering the Prin		ncipal Environ	). Howard mental Engineer	423 84	3-6700	06	07	12	
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COMMENTS AND EXPLANATION OF ANY N No Discharge this Period	VIOLATIONS (Refere	ence all attachments h	ere)											

EPA Form 3320-1 (REV 3/99)

Previous editions may be used

Page 1 of 1

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different) Name TVA - SEQUOYAH NUCLEAR PLANT Address P.O. BOX 2000			NATIONAL POLLU DISC	TANT DISCH	MAJOR (SUBR 01)			rm Approve MB No. 2040				
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Operations performs visual inspections	•			nes.			·					

Name TVA - SEQUOYAH NUCLEAR PLANT Address P.O. BOX 2000			DISC	CHARGE MO	ONITORING REPOR	(SUBR 01)	OMB No. 2040-0004					
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J. Randy Douet	direction or super properly gather a persons who ma	ervision in accordance wi and evaluate the informat mage the system, or thos	th a system designed to a tion submitted. Based on e persons directly respon	ssure that qua my inquiry of the sible for gathe	lified personnet ne person or ring the	ephaniel Principal Environi	U.Lloward mental Engineer	_				42
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Operations performs visual inspections	s for floating debris	and oil and grease	during all backwas	hes.								
EPA Form 3320-1 (REV 3/99) Pre	vious editions may be u	used				<del></del>			P	age 1 of 1		

DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

Form Approved.

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)  Name TVA - SEQUOYAH NUCLEAR PLANT  Address P.O. BOX 2000			NATIONAL POLLU DISC	TANT DISCH	(SUBR 01)				m Approved. IB No. 2040-0004			
(INTEROFFICE SB-2A) SODDY - DAISY TN 3738			<del></del>	026450 T NUMBER	DISCHAR	118 G GE NUMBER	F - FINAL WASTEWATER & S	TORM WA	TED			
Facility TVA - SEQUOYAH NUCLEAR Location HAMILTON COUNTY	<del></del>	7 - 1 - 1 - 1		ITORING PERIOD		EFFLUENT	LIX					
ATTN: Stephanie A. Howard			From 06	MO DA		06 30	*** NO DISCHARO		***			
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Site Vice President	accurate, and co	mplete. I am aware that t	to the best of my knowled here are significant penalt e and imprisonment for kn	ties for submitt	ting false SIGN	ATURE OF PRIN	CIPAL EXECUTIVE		3-6700	06	07 12	
TYPED OR PRINTED COMMENTS AND EXPLANATION OF ANY						FFICER OR AUTH		ODE	JMBER	YEAR	MO DAY	

EPA Form 3320-1 (REV 3/99)

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