

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

October 5, 2006

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

Attention: Mr. Chip Hannah

Dear Mr. Hannah:

SEQUOYAH NUCLEAR PLANT - DISCHARGE MONITORING REPORT FOR SEPTEMBER 2006

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

Sincerely,

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

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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

TYPED OR PRINTED

AREA CODE

September 2006 DMR Attachment

September 2006 Thermal Compliance Information

September 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".

September 2006 CCW Data

CCW TRENCH				
Date/Time Collected	Extractable Petroleum Hydrocarbons	Analysis Date/Time	Analyst	Method
09/05/2006 @ 1005	0.7 mg/L	09/09/2006 @ 0121	KRR	EPA 8015
CCW CHANNEL				
Date/Time Collected	Extractable Petroleum Hydrocarbons	Analysis Date/Time	Analyst	Method
09/05/2006 @ 1000	<0.5 mg/L	09/09/2006 @ 0158	KRR	EPA 8015

September 2006 Veliger Monitoring Information

No samples collected the month of September 2006.

PERMITTEE NAME/ADDRESS (Include Name TVA - SEQUOYAH NUCLI	if Different)	NATIONAL POLLU DISC	MAJOR (SUBR 01)			rm Approved MB No. 2040							
Address P.O. BOX 2000 (INTEROFFICE SB-2A)			TN0	026450		101 G	F - FINAL						
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COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

The following injections occured: 1. PCL-222 Copolymer (max. calc. conc. was 0.009mg/L--limit 0.2mg/L) 2. PCL-222 Phosphate (max. calc. conc. was 0.025mg/L--limit 0.2mg/L) 3. Biodetergent 73551 (max. calc. conc. was 0.015mg/L--limit 2.0mg/L) 4. MSW-101 (max. calc. conc. was 0.018mg/L--limit 0.2mg/L)

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Address P.O. BOX 2000 (INTEROFFICE SB-2A)			TN0026450 101 Q F-FINAL											
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Site Vice President	information, the accurate, and	e information submitted is complete. I am aware that	se persons directly respon , to the best of my knowle there are significant pena	dge and belief Ities for submit	, true, tting false	SIGN	ATURE OF PRIN	mental Engineer ICIPAL EXECUTIVE		43-6700		10	04	
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NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) MAJOR

DISCHARGE MONITORING REPORT (DMR)

EPA Form 3320-1 (REV 3/99)

Previous editions may be used

Boron was sampled on 07/05/2006 at 0745 and a duplicate was sampled on 07/05/2006 at 0746.

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

TVA - SEQUOYAH NUCLEAR PLANT

Page 1 of 1

Form Approved.

OMB No. 2040-0004

Name TVA - SEQUOYAH NUCLE		DISC	(SUBR 01)	-	Of	/B No. 2040	-0004				
Address P.O. BOX 2000			TN0026450 101 T F-FINAL								
(INTEROFFICE SB-2A) SODDY - DAISY TN 37384							· · · · · · · · · · · · · · · · · · ·				
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J. Randy Douet	direction or supe	ervision in accordance wit	th a system designed to a tion submitted. Based on r	ssure that qual	dified personnel	ephanie (1. Howard	IELEFF	ONE	-	UATE
Site Vice President	persons who ma information, the accurate, and or	anage the system, or thos information submitted is, omplete, I am aware that t	e persons directly respon: , to the best of my knowled there are significant penal	sible for gather dge and belief, ties for submitt	ring the true,	Principal Environ	mental Engineer	423 84	3-6700	06	10 04
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NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) MAJOR

DISCHARGE MONITORING REPORT (DMR)

EPA Form 3320-1 (REV 3/99)

Toxicity was not sampled in September 2006.

Previous editions may be used

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

TVA - SEQUOYAH NUCLEAR PLANT

Page 1 of 1

Form Approved.

PERMITTEE NAME/ADDRESS (Include Fac Name TVA - SEQUOYAH NUCLEA		Different)	DISCHARGE MONITORING REPORT (DMR)					S) MAJOR Form Approved. (SUBR 01) OMB No. 2040-0				•1	
Address P.O. BOX 2000			TNO	000460		402 0	¬ `.	FINAL					
(INTEROFFICE SB-2A)				026450		103 G		· · · · · · -					
SODDY - DAISY TN 37384			PERMI	T NUMBER	DISC	CHARGE NUMBE	R LC	W VOL. WASTE	TREAT	MENT P	OND		
Facility TVA - SEQUOYAH NUCLEAR PL	<u> ANT</u>			140111	TODING DE	DIOD		FLUENT					
Location HAMILTON COUNTY			1000		TORING PE		⊸	FLOCINI					
ATTN: Stephanie A. Howard			From 06	MO DAY		6 09 30		" NO DISCHAR NOTE: Read inst		hefore com	nietina thie	form	
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COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) Outfall 103 was closed on 09/03/2006 at 1450 and reopened on 09/05/2006 at 1038.

PERMITTEE	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	
	TVA - SEQUOYAH NUCLEAR PLANT	
Location 1	HAMILTON COUNTY	
ATTN: Ste	phanie A. Howard	

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) MAJOR DISCHARGE MONITORING REPORT (DMR)

107 G

Form Approved. OMB No. 2040-0004

DISCHARGE NUMBER

30

F - FINAL METAL CLEANING WASTE POND

EFFLUENT DAY

(SUBR 01)

*** NO DISCHARGE XX ***

MONITORING PERIOD YEAR MO YEAR MO From 06 09 01 To | 06 09

TN0026450

PERMIT NUMBER

NOTE: Read instructions before completing this form.

PARAMETER		QUAN	TITY OR LOADING			QUALITY OR CONCE	NTRATION		NO. EX	FREQUENCY OF	SAMPLE TYPE
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	I Certify under penalty of law that this document and all attachments were prepared under my	It al College	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	Stephanie a. Aproard					
	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	10	04
	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	1000				
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COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

No Discharge this Period

PERMITTEE NAME/ADDRESS (Include Fa Name TVA - SEQUOYAH NUCLE/ Address P.O. BOX 2000		f Different) 			ARGE ELIMINATION SYNITORING REPORT	(=,	MAJOR (SUBR 01)			rm Approved ИВ No. 2040-	
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NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	Certify under penalty of law that this document and all attachments were prepared under my	Harlania Odlana	TEL	EPHONE		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 persons who manage the system, or those persons directly responsible for gathering the	preprience C. He was					
	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	Principal Environmental Engineer SIGNATURE OF PRINCIPAL EXECUTIVE	423	843-6700	06	10	04
TYPED OR PRINTED	information, including the possibility of fine and imprisonment for knowing violations.	OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	МО	DAY

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REPORT

DAILY MX

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

No Discharge this Period

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EPA Form 3320-1 (REV 3/99) Pro	evious editions may be	used				<u></u>				Page 1 of	1	

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different) Name TVA - SEQUOYAH NUCLEAR PLANT					IARGE ELIMINATION ST DNITORING REPORT		MAJOR	Form Approved. 3' OMB No. 2040-0004			
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SODDY - DAISY TN 37384 Facility TVA - SEQUOYAH NUCLEAR F			PERMI	T NUMBE	R DISCHAR	GE NUMBER	BACKWASH				
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J. Randy Douet	ition submitted. Based on my inquiry of t se persons directly responsible for gathe		the person or ering the Principal Environ			423 8	43-6700	06	10 04		
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NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) MAJOR

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different) Name TVA - SEQUOYAH NUCLEAR PLANT Address P.O. BOX 2000			NATIONAL POLLU DISC	TANT DISCH	(DMR)	MAJOR (SUBR 01)		For OM	d. -0004	••			
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PERMITTEE 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			NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) DISCHARGE MONITORING REPORT (DMR) TN0026450 PERMIT NUMBER DISCHARGE NUMBER					MAJOR (SUBR 01)			Form Approved. OMB No. 2040-0004			
								F - FINAL WASTEWATER & S	WATER					
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ATTN: Stephanie A. Howard			From 06	09 01	To 0	6 09	30	NO DISCHAR NOTE: Read inst	_	XX ***	leting this for	m		
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NAME/TITLE PRINCIPAL EXECUTIVE O			cument and all attachment this a system designed to a		ed under my	It and	log to is 1		TE	LEPHONE		DATE		
J. Randy Douet Site Vice President	properly gather persons who ma information, the	and evaluate the informa inage the system, or thos information submitted is	tion submitted. Based on e persons directly respon , to the best of my knowle	my inquiry of the sible for gathe dge and belief.	ring the , true,	Princi	ipal Environm	Moward ental Engineer	423	843-670	0 06	10	04	
TYPED OR PRINTED			there are significant pena ne and imprisonment for k					IPAL EXECUTIVE DRIZED AGENT	AREA	NUMBER	R YEAR	MO I	DAY	

EPA Form 3320-1 (REV 3/99)

Previous editions may be used

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

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

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