

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

Name **TVA - SEQUOYAH NUCLEAR PLANT**  
 Address **P.O. BOX 2000**  
**(INTEROFFICE OPS-5N-SQN)**  
**SODDY - DAISY, TN 37384**  
 Facility **TVA - SEQUOYAH NUCLEAR PLANT**  
 Location **HAMILTON COUNTY**

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

MAJOR  
 (SUBR 01)  
 F - FINAL  
 DIFFUSER DISCHARGE  
 EFFLUENT

Form Approved.  
 OMB No. 2040-0004

**TN0026450**  
 PERMIT NUMBER

**101 G**  
 DISCHARGE NUMBER

MONITORING PERIOD

YEAR	MO	DAY	YEAR	MO	DAY
18	08	01	18	08	31

From To

\*\*\* NO DISCHARGE ☐ \*\*\*

NOTE: Read instructions before completing this form.

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
TEMPERATURE, WATER DEG. CENTIGRADE	SAMPLE MEASUREMENT	*****	*****	**	*****	*****	42.3	04	0	31 / 31	RCORDR
00010 1 0	PERMIT REQUIREMENT	*****	*****	****	*****	*****	Req. Mon. DAILY MAX	DEG. C.		CONTI NUOUS	CALCTD
EFFLUENT GROSS											
TEMPERATURE, WATER DEG. CENTIGRADE	SAMPLE MEASUREMENT	*****	*****	**	*****	*****	29.5	04	0	31 / 31	MODEL D
00010 Z 0	PERMIT REQUIREMENT	*****	*****	****	*****	*****	30.5 DAILY MX	DEG. C.		CONTI NUOUS	CALCTD
INSTREAM MONITORING											
TEMP. DIFF. BETWEEN SAMP. & UPSTRM DEG.C	SAMPLE MEASUREMENT	*****	*****	**	*****	*****	2.6	04	0	31 / 31	CALCTD
00016 1 S	PERMIT REQUIREMENT	*****	*****	****	*****	*****	3.0 DAILY MX	DEG. C.		CONTI NUOUS	CALCTD
EFFLUENT GROSS											
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	*****	1832	03	*****	*****	*****	**	0	31 / 31	RCORDR
50050 1 0	PERMIT REQUIREMENT	*****	Req. Mon. DAILY MAX	MGD	*****	*****	*****	****		CONTI NUOUS	RCORDR
EFFLUENT GROSS											
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	*****	1740	03	*****	*****	*****	03	0	31 / 31	CALCTD
50050 1 0	PERMIT REQUIREMENT	*****	Req. Mon. MO AVG	MGD	*****	*****	*****	MGD		CONTI NUOUS	CALCTD
EFFLUENT GROSS VALUE											
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT	*****	*****	**	*****	0.016	0.026	19	0	26 / 31	GRAB
50060 1 0	PERMIT REQUIREMENT	*****	*****	****	*****	0.1 MO AVG	0.1 DAILY MAX	MG/L		FIVE PER WEEK	CALCTD
EFFLUENT GROSS VALUE											
TEMPERATURE - C, RATE OF CHANGE	SAMPLE MEASUREMENT	*****	0.3	62	*****	*****		**	0	31 / 31	CALCTD
82234 1 0	PERMIT REQUIREMENT	*****	2.0 DAILY MX	DEG C/HR	*****	*****	*****	****		CONTI NUOUS	CALCTD
EFFLUENT GROSS											

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  Anthony L. Williams  Site Vice President  TYPED OR PRINTED	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.	TELEPHONE		DATE		
		423 843-7001		18	09	11
		AREA CODE	NUMBER	YEAR	MO	DAY

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

Site Vice President

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

No closed mode operation. The following injections occurred: Spectrus BD 1500 (max calc. was 0.031 mg/L, limit is 2.0 mg/L), Flogard MS6236 (max calc. was 0.029 mg/L, limit is 0.20 mg/L), and Spectrus CT 1300 (max calc was 0.03 mg/L, limit is 0.050 mg/L).

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 Location **HAMILTON COUNTY**

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

MAJOR  
 (SUBR 01)

Form Approved.  
 OMB No. 2040-0004

**TN0026450** **101 T**  
 PERMIT NUMBER DISCHARGE NUMBER

F - FINAL  
 BIOMONITORING FOR OUTFALL 101  
 EFFLUENT

MONITORING PERIOD  
 From **18 08 01** To **18 08 31**

\*\*\* NO DISCHARGE ☐ \*\*\*

NOTE: Read instructions before completing this form.

ATTN:Millicent Garland

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
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			
TRP6C 1 0 EFFLUENT GROSS	PERMIT REQUIREMENT	*****	*****	****	42.8 MINIMUM	*****	*****	PERCENT		SEMI ANNUAL	COMPOS
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	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.	TELEPHONE		DATE			
Anthony L. Williams Site Vice President		423	843-7001	18	09	11	
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		AREA CODE	NUMBER	YEAR	MO

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

Toxicity was not sampled in August 2018.

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 Location **HAMILTON COUNTY**

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

MAJOR  
 (SUBR 01)

Form Approved.  
 OMB No. 2040-0004

**TN0026450** **103 G**  
 PERMIT NUMBER DISCHARGE NUMBER

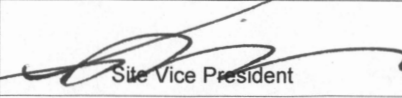
F - FINAL  
 LOW VOL. WASTE TREATMENT POND  
 EFFLUENT

MONITORING PERIOD  
 YEAR MO DAY YEAR MO DAY  
 From **18 08 01** To **18 08 31**

\*\*\* NO DISCHARGE ☐ \*\*\*

NOTE: Read instructions before completing this form.

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
PH	SAMPLE MEASUREMENT	*****	*****	**	6.5	*****	7.0	12	0	5 / 31	GRAB
00400 1 0 EFFLUENT GROSS	PERMIT REQUIREMENT	*****	*****	**	6.0 MINIMUM	*****	9.0 MAXIMUM	SU		ONCE/ WEEK	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	*****	*****	**	*****	9.6	9.6	19	0	1 / 31	GRAB
00530 1 0 EFFLUENT GROSS	PERMIT REQUIREMENT	*****	*****	**	*****	30.0 MO AVG	100.0 DAILY MX	MG/L		ONCE/ MONTH	GRAB
OIL AND GREASE	SAMPLE MEASUREMENT	*****	*****	**	*****	<4.8	<4.8	19	0	1 / 31	GRAB
00556 1 0 EFFLUENT GROSS	PERMIT REQUIREMENT	*****	*****	**	*****	15.0 MO AVG	20.0 DAILY MX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.627	0.953	03	*****	*****	*****	**	0	4 / 31	INSTAN
50050 1 0 EFFLUENT GROSS	PERMIT REQUIREMENT	Req. Mon. MO AVG	Req. Mon DAILY MX	MGD	*****	*****	*****	**		ONCE/ WEEK	INSTAN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  Anthony L. Williams  Site Vice President  TYPED OR PRINTED	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.	 Site Vice President SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE		DATE		
			423	843-7001	18	09	11
			AREA CODE	NUMBER	YEAR	MO	DAY

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

The Turbine Building Sump (TBS) was discharged directly to the Yard Pond (YP) on 8/4/18 - 8/15/18 and 8/27/18 - 8/29/18.



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

MAJOR  
 (SUBR 01)

Form Approved.  
 OMB No. 2040-0004

**TN0026450** **110 G**  
 PERMIT NUMBER DISCHARGE NUMBER

F - FINAL  
 RECYCLED COOLING WATER  
 EFFLUENT

MONITORING PERIOD  
 From **18 08 01** To **18 08 31**

\*\*\* NO DISCHARGE ☒ \*\*\*

NOTE: Read instructions before completing this form.

ATTN:Millicent Garland

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
TEMPERATURE, WATER DEG. CENTIGRADE 00010 1 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	**	*****	*****		04			
	PERMIT REQUIREMENT	*****	*****	**	*****	*****	REPORT DAILY MX	DEG C		CONTINUOUS	CALCTD
TEMPERATURE, WATER DEG. CENTIGRADE 00010 Z 0 INSTREAM MONITORING	SAMPLE MEASUREMENT	*****	*****	**	*****	*****		04			
	PERMIT REQUIREMENT	*****	*****	**	*****	*****	30.5 DAILY MX	DEG C		CONTINUOUS	CALCTD
TEMP. DIFF. BETWEEN SAMP. & UPSTRM DEG.C 00016 1 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	**	*****	*****		04			
	PERMIT REQUIREMENT	*****	*****	**	*****	*****	5 DAILY MX	DEG C		CONTINUOUS	CALCTD
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****		03	*****	*****	*****	**			
	PERMIT REQUIREMENT	*****	Req. Mon. DAILY MX	MGD	*****	*****	*****	**		CONTINUOUS	RCORDR
CHLORINE, TOTAL RESIDUAL 50060 1 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	**	*****			19			
	PERMIT REQUIREMENT	*****	*****	**	*****	0.1 MO AVG	0.1 DAILY MX	MG/L		Five per Week	CALCTD
TEMPERATURE - C, RATE OF CHANGE 82234 1 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****		04	*****	*****	*****	**			
	PERMIT REQUIREMENT	*****	2 DAILY MX	DEG C	*****	*****	*****	**		CONTINUOUS	CALCTD
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE		
		AREA CODE	NUMBER	YEAR	MO	DAY
Anthony L. Williams Site Vice President TYPED OR PRINTED	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.	423	843-7001	18	09	11
	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT					

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

No Discharge this Period



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

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 Location **HAMILTON COUNTY**

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

MAJOR  
 (SUBR 01)

Form Approved.  
 OMB No. 2040-0004

**TN0026450** **110 T**  
 PERMIT NUMBER DISCHARGE NUMBER

F - FINAL  
 RECYCLED COOLING WATER  
 EFFLUENT

MONITORING PERIOD  
 YEAR MO DAY YEAR MO DAY  
 From **18 08 01** To **18 08 31**

\*\*\* NO DISCHARGE ☒ \*\*\*

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ATTN:Millicent Garland

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
IC25 STATRE 7DAY CHR CERIODAPHNIA	SAMPLE MEASUREMENT	*****	*****	**		*****	*****	23			
TRP3B 1 0 0	PERMIT REQUIREMENT	*****	*****	****	42.8 MINIMUM	*****	*****	PERCENT		SEMI ANNUAL	COMPOS
IC25 STATRE 7DAY CHR PIMEPHALES	SAMPLE MEASUREMENT	*****	*****	**		*****	*****	23			
TRP6C 1 0 0	PERMIT REQUIREMENT	*****	*****	****	42.8 MINIMUM	*****	*****	PERCENT		SEMI ANNUAL	COMPOS
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

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Anthony L. Williams		423	843-7001	18	09	11
Site Vice President						
TYPED OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY

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

No Discharge this Period

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

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**SODDY - DAISY, TN 37384**  
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NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

MAJOR  
(SUBR 01)

F - FINAL

WASTEWATER & STORM WATER

EFFLUENT

Form Approved.  
OMB No. 2040-0004

TN0026450

118 G

PERMIT NUMBER

DISCHARGE NUMBER

MONITORING PERIOD

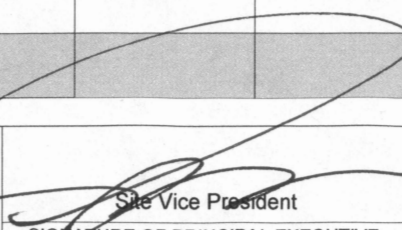
From **18 08 01** To **18 08 31**

\*\*\* NO DISCHARGE ☒ \*\*\*

NOTE: Read instructions before completing this form.

ATTN:Millicent Garland

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
OXYGEN, DISSOLVED (DO) 00300 1 0 EFFLUENT GROSS	SAMPLE MEASUREMENT	*****	*****	**		*****	*****	19			
	PERMIT REQUIREMENT	*****	*****	****	2 MINIMUM	*****	*****	MG/L		TWICE/ WEEK	GRAB
SOLIDS, TOTAL SUSPENDED 00530 1 0 EFFLUENT GROSS	SAMPLE MEASUREMENT	*****	*****	**	*****	*****		19			
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	100 DAILY MX	MG/L		TWICE/ WEEK	GRAB
SOLIDS, SETTLEABLE 00545 1 0 EFFLUENT GROSS	SAMPLE MEASUREMENT	*****	*****	**	*****	*****		25			
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	1 DAILY MX	ML/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 EFFLUENT GROSS	SAMPLE MEASUREMENT			03	*****	*****	*****	**			
	PERMIT REQUIREMENT	Req. Mon. MO AVG	Req. Mon. DAILY MX	MGD	*****	*****	*****	*		ONCE/ BATCH	ESTIMA
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

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			423	843-7001	18	09	11
			AREA CODE	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. No Discharge this Period

**TVA Sequoyah Nuclear Plant**  
**NPDES Permit No. TN0026450**  
**Turbine Building Sump Missed Sample**  
**Attachment 1**

**Description of Non-Compliance and Determination of Cause:**

The turbine building sump was aligned to the Yard Pond from Saturday, August 4, to Wednesday, August 15, for repairs to a vent on the discharge piping. This is an authorized discharge pathway per the NPDES permit with weekly sampling required, where a week is defined in the permit as being Monday through Sunday. Due to a misinterpretation of the permit, a sample was not collected prior to Sunday, August 5, at midnight. However during subsequent weeks, samples were collected on Tuesday, August 7, and Monday, August 13, in accordance with the permit. At no time was there a threat to public drinking supplies, to human health, or the environment.

**Period of Non-Compliance:**

The period of non-compliance began on Saturday, August 4, at approximately 2130 and ended on Sunday, August 5, at midnight.

**Steps Taken to Reduce, Eliminate and Prevent Recurrence**

SNQ has documented the non-compliance in the TVA Corrective Action Program under CR 1437885 and in a Prompt Investigation report, which includes the recommendation that the NPDES permit be reviewed prior to approval of activities involving non-standard operating conditions.



**TVA Sequoyah Nuclear Plant  
NPDES Permit No. TN0026450  
Attachment 2**

**Turbine Building Sump Monitoring Data**

During August 2018, the turbine building sump was discharged directly to the yard drainage pond from 8/4/18 – 8/15/18 and 8/27/18 – 8/29/18. During these periods, the turbine building sump was monitored in accordance with the narrative condition found in Part 1A.2 of NPDES Permit TN0026450.

<b>Parameter</b>	<b>Daily Minimum</b>	<b>Monthly Average</b>	<b>Daily Maximum</b>	<b>No. of Samples</b>
Flow	-	1.29 MGD	1.33 MGD	3
pH	8.16 s.u.	-	8.25 s.u.	3
O&G	-	<4.8	<4.8	3
TSS	-	3.93	4.4	3