

NAME TVA - SEQUOYAH NUCLEAR  
 ADDRESS 6411 E. BRAINERD RD.  
CHATTANOOGA TN 37421

TN0026450  
 PERMIT NUMBER

101 1  
 DISCHARGE NUMBER

F - FINAL LIMITS  
 DIFFUSER GATE TO TENN RIVER

FACILITY \_\_\_\_\_  
 LOCATION \_\_\_\_\_

MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	84	11	01		84	11	30
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

ATTN: JERRY E. LINER

PARAMETER (32-37)	SAMPLE MEASUREMENT	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (46-53) (54-61)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
TEMPERATURE, WATER DEG. FAHRENHEIT 00011 P 0 SEE COMMENTS BELOW	*****	*****	*****	*****	52.3	59.6	70.1	0	30/30	GR	
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	*****	DEG.F		SEE GRAB10 PERMIT	
TEMPERATURE, WATER DEG. FAHRENHEIT 00011 0 0 SEE COMMENTS BELOW	*****	*****	*****	*****	74.3	82.8	93.9	0	30/30	REC	
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	112.5	DEG.F		CONTINRCORDE UOUS	
TEMPERATURE, WATER DEG. FAHRENHEIT 00011 R 0 SEE COMMENTS BELOW	*****	*****	*****	*****			**				
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	97.0	DEG.F		CONTINRCORDE UOUS	
TEMPERATURE, WATER DEG. FAHRENHEIT 00011 6 0 DOWNSTREAM MONITOR	*****	*****	*****	*****			**				
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	101.0	DEG.F		DAILY GRAB	
TEMP DIFF. BETWEEN SAMPLE AND UPSTREAM 00018 H 0 UP- AND DOWN-STREAM	*****	*****	*****	*****	2.4	3.8	4.2	0	29/30*	GR	
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	5.4	DEG.F		SEE GRAB10 PERMIT	
PH	*****	*****	*****	*****							
	PERMIT REQUIREMENT	*****	*****	*****	6.0	*****	9.0	SU		SEE PERMIT	
EFFLUENT GROSS VALUE FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 EFFLUENT GROSS VALUE	*****	1199	1547	MGD	*****	*****	*****	*****	0	CONT* REC	
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	*****	*****	*****	CONTINRCORDE UOUS	

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  
 MARTIN E. RIVERS, DIRECTOR OF ENVIRONMENTAL QUALITY STAFF  
 TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

Original signed by  
 Martin E. Rivers  
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE 856-6601  
 DATE 85 02 28  
 FTS AREA CODE NUMBER YEAR MO DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments)  
 CORRESPONDS TO AMBIENT TEMPERATURE, 'Q' TO OPEN MODE, 'S' TO CLOSED MODE. INDICATE WHICH IS APPROPRIATE. \*MONITOR INOPERABLE ONE DAY THIS REPORTING PERIOD. SEE PERMIT FOR FURTHER MONITORING REQUIREMENTS. \*\*PLANT OPERATED IN OPEN MODE ALL MONTH.

1225  
 0/1

PERMITTEE NAME/ADDRESS (include Facility Name/Location if different)

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

Form Approved OMB No. 2040-0004 Expires 2-29-84

NAME TVA - SEQUOYAH NUCLEAR  
 ADDRESS 6411 E. BRAINERD RD.  
CHATTANOOGA TN 37421

TN0026450  
 PERMIT NUMBER

101 1  
 DISCHARGE NUMBER

F - FINAL LIMITS  
 DIFFUSER GATE TO TENN RIVER

FACILITY \_\_\_\_\_  
 LOCATION \_\_\_\_\_

MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	84	11	01		84	11	30
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

ATTN: JERRY E. LINER

PARAMETER (32-37)	SAMPLE MEASUREMENT	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (38-45)			UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE (54-61)	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM				
CHLORINE, TOTAL RESIDUAL 50060 1 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	*****	<0.1	<0.1	<0.1	MG/L	0	13/30*	CAL
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	*****				
TEMPERATURE RATE OF CHANGE DEG. F/HOUR 74029 6 0 DOWNSTREAM MONITOR	SAMPLE MEASUREMENT	0.4	1.6	DEG F/HOUR	*****	*****	*****	*****	0	29/30**	CAL
	PERMIT REQUIREMENT	*****	3.6	INST MX	*****	*****	*****				
DOWNSTREAM TEMPERATURE	SAMPLE MEASUREMENT	63.4	74.1	DEG F					0	30/30	REC
	PERMIT REQUIREMENT		86.9								
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER MARTIN E. RIVERS, DIRECTOR OF ENVIRONMENTAL QUALITY STAFF TYPED OR PRINTED	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)	TELEPHONE		DATE		
		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	FTS AREA CODE	856-6601	85	02

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments)  
 'Q' CORRESPONDS TO AMBIENT TEMPERATURE, '0' TO OPEN MODE, 'S' TO CLOSED MODE. INDICATE WHICH IS APPROPRIATE.  
 SEE PERMIT FOR FURTHER MONITORING REQUIREMENTS.  
 \*\*MONITOR INOPERABLE ONE DAY THIS REPORTING PERIOD.

NAME TVA - SEQUOYAH NUCLEAR  
ADDRESS 6411 E. BRAINERD RD.  
CHATTANOOGA TN 37421

TN0026450  
PERMIT NUMBER

102 1  
DISCHARGE NUMBER

F - FINAL LIMITS  
YARD DRAINAGE POND EFFLUENT

FACILITY \_\_\_\_\_  
LOCATION \_\_\_\_\_

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
84	11	01		84	11	30
(20-21)		(22-23) (24-25)		(26-27)		(28-29) (30-31)

NOTE: Read instructions before completing this form.

ATTN: JERRY E. LINER

PARAMETER (32-37)	X	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (38-45) (46-53) (54-61)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
PH		*****	*****	*****	7.3	*****	8.2		0	18/30	GR
00400 1 0 EFFLUENT GROSS VALUE		*****	*****	*****	6.0 MINIMUM	*****	9.0 MAXIMUM	SU		THREE/GRAB WEEK	
SOLIDS, TOTAL SUSPENDED		*****	*****	*****	*****	18	74		0	22/30	GR
00530 1 0 EFFLUENT GROSS VALUE		*****	*****	*****	*****	30 DAILY AV	100 DAILY MX	MG/L		WEEK-GRAB DAYS	
OIL AND GREASE (SOXHLET EXTR.) TOT.		*****	*****	*****	*****	<5.0	<5.0		0	8/30	GR
00550 1 0 EFFLUENT GROSS VALUE		*****	*****	*****	*****	5 DAILY AV	20 DAILY MX	MG/L		WEEKLY GRAB	
FLOW, IN CONDUIT OR THRU TREATMENT PLANT		*****	*****	*****	*****	*****	*****	*****			
50050 1 0 EFFLUENT GROSS VALUE		*****	*****	MGD	*****	*****	*****	*****		CONTINUOUS RECORD	

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  
MARTIN E. RIVERS, DIRECTOR  
OF ENVIRONMENTAL QUALITY  
STAFF  
TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: 856-6601  
DATE: 85 02 28  
AREA CODE: FTS  
NUMBER: 856-6601  
YEAR: 85  
MO: 02  
DAY: 28

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) PH MEASUREMENT FREQUENCY SHALL NOT BE LESS THAN 1/WEEK AFTER 1 YEAR, UNLESS DETERMINED OTHERWISE.

\* FLOWMETER MALFUNCTIONED THIS REPORTING PERIOD.



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

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

Form Approved OMB No. 2040-0004 Expires 2-29-84

NAME TVA - SEQUOYAH NUCLEAR  
 ADDRESS 6411 E. BRAINERD RD.  
CHATTANOOGA TN 37421

TN0026450  
 PERMIT NUMBER

103 1  
 DISCHARGE NUMBER

F - FINAL LIMITS  
 LOW VOL WASTE TREAT POND EFFL

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
84	11	01	TO	84	11	30
(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

ATTN: JERRY E. LINER

PARAMETER (32-37)	X	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (54-61)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
PH		*****	*****	*****	7.2	*****	8.7		0	19/30	GR
00400 1 0 EFFLUENT GROSS VALUE		*****	*****	*****	6.0 MINIMUM	*****	9.0 MAXIMUM	SU		THREE/ WEEK	
SOLIDS, TOTAL SUSPENDED		127	228		*****	6.8	11		0	9/30	GR
00530 1 0 EFFLUENT GROSS VALUE		380 DAILY AV	1250 DAILY MX	LBS/DY	*****	30 DAILY AV	100 DAILY MX	MG/L		THREE/ WEEK	GRAB
OIL AND GREASE (SOXHLET EXTR.) TOT.		<72	<106		*****	<5.0	<5.0		0	9/30	GR
00550 1 0 EFFLUENT GROSS VALUE		190 DAILY AV	250 DAILY MX	LBS/DY	*****	15 DAILY AV	20 DAILY MX	MG/L		TWICE/ WEEK	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT		1.42	2.68		*****	*****	*****	** **	0	30/30	CAL
50050 1 0 EFFLUENT GROSS VALUE		***** DAILY AV	***** DAILY MX	MGD	*****	*****	*****	*****		DAILY	TOTALZ

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER MARTIN E. RIVERS, DIRECTOR OF ENVIRONMENTAL QUALITY STAFF TYPED OR PRINTED	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)	TELEPHONE		DATE		
		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	FTS AREA CODE	856-6601	85	02

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

IN THE EVENT OF DISCHARGE OF TURBINE BLDG SUMP TO COND COOL WATER CHANNEL OR DRAINAGE POND, TSS, OIL AND GREASE, AND PH SHALL BE MONITORED 5/WEEK.



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

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

Form Approved OMB No. 2040-0004 Expires 2-29-84

NAME TVA - SEQUOYAH NUCLEAR  
 ADDRESS 6411 E. BRAINERD RD.  
CHATTANOOGA TN 37421

PERMIT NUMBER TN0026450

DISCHARGE NUMBER 104 1

F - FINAL LIMITS  
 RADWSTE SYST TO COOL TWR BLWDN

FACILITY \_\_\_\_\_  
 LOCATION \_\_\_\_\_

MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	84	11	01		84	11	30
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

ATTN: JERRY E. LINER

PARAMETER (32-37)	X	(3 Card Only) QUANTITY OR LOADING (54-61)			(4 Card Only) QUALITY OR CONCENTRATION (54-61)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
PH		*****	*****	*****	5.48	*****	7.9	1	8/30	GR
00400 1 0 EFFLUENT GROSS VALUE		*****	*****	*****	6.0 MINIMUM	*****	9.0 MAXIMUM		TWICE/ WEEK	GRAB
SOLIDS, TOTAL SUSPENDED		<2.1	5.0		*****	<8.4	14	0	8/30	COMP
00530 1 0 EFFLUENT GROSS VALUE		13 DAILY AV	42 DAILY MX	LBS/DY	*****	30 DAILY AV	100 DAILY MX		TWICE/ WEEK	COMPOS
OIL AND GREASE (SOXHLET EXTR.) TOT.		<1.2	<1.9		*****	<5.0	<5.0	0	6/30	GR
00550 1 0 EFFLUENT GROSS VALUE		6.3 DAILY AV	8.3 DAILY MX	LBS/DY	*****	15 DAILY AV	20 DAILY MX		TWICE/ WEEK	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT		0.030	0.057		*****	*****	*****	0	30/30	REC
50050 1 0 EFFLUENT GROSS VALUE		***** DAILY AV	***** DAILY MX	MGD	*****	*****	*****	*****	ONCE/ BATCH	RCORDB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  
 MARTIN E. RIVERS, DIRECTOR  
 OF ENVIRONMENTAL QUALITY  
 STAFF  
 TYPED OR PRINTED

CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319. Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: FTS 856-6601  
 DATE: 85 02 28  
 AREA CODE NUMBER YEAR MO DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all applicable regulations)  
 DURING ABNORMAL FLOW CONDITIONS, EXCEEDING .05 MGD AS A 7 DAY AVERAGE, DAILY MAXIMUM QUANTITY LIMITS MAY BE EXCEEDED, BUT SHALL NOT EXCEED 4 TIMES LIMITATIONS LISTED.  
 TSS SAMPLE TYPE = 1 GRAB/BATCH COMPOSITED FOR ANALYSIS OVER A 24 HOUR DAY.  
 \*TWO O&G SAMPLES WERE INADVERTENTLY NOT COLLECTED THIS REPORTING PERIOD. A NOTIFICATION OF NONCOMPLIANCE IS ATTACHED.

NOTIFICATION OF NONCOMPLIANCE WITH EFFLUENT LIMITATIONS - NPDES PERMIT  
NO. TN0026450 - SEQUOYAH NUCLEAR PLANT

Description of the discharge--Discharge No. 104 - Liquid radwaste system effluent to cooling tower blowdown. A grab sample of the batch discharge collected on November 25 had a pH value of 5.48 standard units (s.u.), which is less than the minimum pH limitation of 6.0 s.u.

Cause of period of the noncompliance--Personnel failed to adjust the pH of the wastes prior to the release. The duration of the batch discharge was three and one-half hours.

Steps taken to reduce, eliminate, and prevent recurrence of the noncomplying discharge--In the future, the wastes will be discharged in accordance with instructions which require that the wastes have a pH in the range of 6.0 to 9.0 s.u. prior to release.

JAN 4 1985

NAME TVA - SEQUOYAH NUCLEAR  
 ADDRESS 6411 E. BRAINERD RD.  
CHATTANOOGA TN 37421

TN0026450  
 PERMIT NUMBER

105 1  
 DISCHARGE NUMBER

F - FINAL LIMITS  
 REGEN TO COOL TWR BLWDN LINE

FACILITY \_\_\_\_\_  
 LOCATION \_\_\_\_\_

MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	84	11	01		84	11	30
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

ATTN: JERRY E. LINER

PARAMETER (32-37)	X	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (54-61)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
PH	SAMPLE MEASUREMENT	*****	*****	*****	6.0	*****	8.9		0	48 BATCHES	GR
00400 1 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*****	6.0 MINIMUM	*****	9.0 MAXIMUM	SU		ONCE/ BATCH	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	<2.6	11		*****	<5.3	17		0	10 BATCHES	COMP
00530 1 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	25 DAILY AV	83 DAILY MX	LBS/DY	*****	30 DAILY AV	100 DAILY MX	MG/L		ONCE/ BATCH	COMPOS
OIL AND GREASE (SOXHLET EXTR.) TOT.	SAMPLE MEASUREMENT	<2.6	<4.4		*****	<5.0	<5.0		0	10 BATCHES	GR
00550 1 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	13 DAILY AV	17 DAILY MX	LBS/DY	*****	15 DAILY AV	20 DAILY MX	MG/L		DAILY	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.063			*****	*****	*****	*****	0	10 BATCHES	GR
50050 1 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	***** DAILY AV	***** DAILY MX	MGD	*****	*****	*****	*****		ONCE/ BATCH	CALCTD
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER MARTIN E. RIVERS, DIRECTOR OF ENVIRONMENTAL QUALITY STAFF TYPED OR PRINTED	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years)	TELEPHONE		DATE		
		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	PTS AREA CODE	856-6601	85	02

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

SHOULD ABNORMAL CONDITIONS NECESSITATE INCREASED WASTE FLOW ABOVE 0.10 MGD, AS A 7 DAY AVERAGE, DAILY MAXIMUM QUANTITY LIMITATIONS MY BE EXCEEDED BUT SHALL NOT EXCEED 2 TIMES THE LIMITATIONS LISTED.



NAME **TVA - SEQUOYAH NUCLEAR**  
 ADDRESS **6411 E. BRAINERD RD.**  
**CHATTANOOGA TN 37421**

**TN0026450**  
 PERMIT NUMBER

**106 1**  
 DISCHARGE NUMBER

**F - FINAL LIMITS**  
**STM GEN BLWDN TO COOL. TWR BLDN**

FACILITY \_\_\_\_\_  
 LOCATION \_\_\_\_\_

MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	84	11	01		84	11	30
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

ATTN: JERRY E. LINER

PARAMETER (32-37)	SAMPLE MEASUREMENT PERMIT REQUIREMENT	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (38-45)			UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM				
PH	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	*****				
00400 1 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	*****	SU		SEE PERMIT	
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT				*****						
00530 1 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	50 DAILY AV	170 DAILY MX	LBS/DY	*****	30 DAILY AV	100 DAILY MX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	NO DISCHARGE				*****	*****	*****	*****		
50050 1 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	MGD	*****	*****	*****	*****		ONCE/ MONTH	INSTAN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  
**MARTIN E. RIVERS, DIRECTOR**  
**OF ENVIRONMENTAL QUALITY**  
**STAFF**  
 TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: 856-6601  
 DATE: 85 02 28

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all applicable laws):  
**SHOULD INTERNAL PLANT CHEMISTRY REQUIREMENTS NECESSITATE INCREASED BLOWDOWN FLOW OVER .2 MGD AS A 7 DAY AVERAGE, DAILY MAXIMUM QUANTITY LIMITATIONS MAY BE EXCEEDED BUT SHALL NOT EXCEED 4 TIMES THE LIMITATIONS LISTED.**

NAME IVA - SEQUOYAH NUCLEAR  
 ADDRESS 6411 E. BRAINERD RD.  
CHATTANOOGA TN 37421

TN0026450  
 PERMIT NUMBER

107 1  
 DISCHARGE NUMBER

F - FINAL LIMITS  
 METAL CLN WASTE PND TO COND CH

FACILITY \_\_\_\_\_  
 LOCATION \_\_\_\_\_

MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	84	11	01		84	11	30
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

ATTN: JERRY E. LINER

PARAMETER (32-37)	SAMPLE MEASUREMENT	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (48-45)			UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-71)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM				
CHEM. OXYGEN DEMAND (HIGH LEVEL) (COD) 00340 1 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT		*	LBS/DAY	*****						
PH	SAMPLE MEASUREMENT	*****	*****	*****	7.9		8.7		0	7/30	GR
00400 1 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*****	6.0		9.0	SU			WEEKLYGRAB
SOLIDS, TOTAL SUSPENDED 00530 1 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	9.9	21	LBS/DAY	*****	3.4	6.0		0	7/30	8-HR COMP
OIL AND GREASE (SOXHLET EXTR.) TOT. 00550 1 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	<14	<22	LBS/DAY	*****	<5.0	<5.0		0	7/30	GR
PHOSPHORUS, TOTAL (AS P) 0066E 1 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT		*	LBS/DAY	*****		*				
COPPER, TOTAL (AS CU) 01042 1 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	<0.01	0.02	LBS/DAY	*****	<0.005	<0.005		0	7/30	8-HR COMP
IRON, TOTAL (AS FE) 01045 1 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	1.4	3.3	LBS/DAY	*****	0.53	1.1		2	7/30	8-HR COMP
	PERMIT REQUIREMENT		8.3		*****	DAILY AV	DAILY MX				WEEKLYCOMP-8

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER MARTIN E. RIVERS, DIRECTOR OF ENVIRONMENTAL QUALITY STAFF	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to \$100,000 and/or maximum imprisonment of between 6 months and 5 years.)	TELEPHONE	DATE			
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	FTS AREA CODE	NUMBER	YEAR	MO

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments) **IN NO CASE SHALL THE QUANTITY DISCHARGED EXCEED THE QUANTITY DETERMINED BY MULTIPLYING THE VOLUME OF THE BATCH OF METAL CLEANING WASTE GENERATED BY THE CONCENTRATION. SEE PERMIT FOR ADDITIONAL SAMPLING REQUIREMENTS.**  
 \*NO PHOSPHORUS OR ORGANIC CHEMICAL BEARING COMPOUNDS WERE USED. A NOTIFICATION OF NONCOMPLIANCE IS ATTACHED.

NOTIFICATION OF NONCOMPLIANCE WITH EFFLUENT LIMITATIONS - NPDES PERMIT  
NO. TN0026450 - SEQUOYAH NUCLEAR PLANT

Description of the discharge--Discharge Serial No. 107 - Metal-cleaning waste pond effluent. Composite samples collected on November 15 and 16, 1984, during a batch discharge each had total iron concentrations of 1.1 mg/L, exceeding the permit limitation of 1.0 mg/L.

Cause and period of the noncompliance--The exact cause of the noncompliance is unknown. The prerelease sample for total iron had a concentration of 0.94 mg/L and the 8-hour composite sample taken during the first 8 hours of discharge had a total iron concentration of 0.94 mg/L. We suspect that some disturbance of the floc material on the bottom of the pond occurred, thereby entraining some iron in the discharge. The lowest pH value obtained for this batch discharge was 7.5 standard units which should have been sufficient to prevent iron dissolution.

Discharge dates and times were as follows.

<u>Date</u>	<u>Discharge Time</u>
11/13/84	1430-2230
11/14/84	0730-1430
11/15/84	0800-1600
11/16/84	1330-2130

Thus, the maximum period of noncompliance was 23 hours.

Steps taken to reduce, eliminate, and prevent recurrence of the noncomplying discharge--Usage of DSN 107 for treatment of temporary demineralizer regenerant process wastes will be reduced when the new makeup water treatment plant (complete with waste neutralization facilities) becomes operational.



NAME **TVA - SEQUOYAH NUCLEAR**  
 ADDRESS **6411 E. BRAINERD RD.**  
**CHATTANOOGA TN 37421**

**TN0026450**  
 PERMIT NUMBER

**107 1**  
 DISCHARGE NUMBER

**F - FINAL LIMITS**  
**METAL CLN WASTE PND TO COND CH**

FACILITY \_\_\_\_\_  
 LOCATION \_\_\_\_\_

MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	84	11	01		84	11	30
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

ATTN: JERRY E. LINER

PARAMETER (32-37)	X	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (38-45)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	0.326	0.532	MGD	*****	*****	*****	*****	0	8/30	CAL
	PERMIT REQUIREMENT	*****	*****		*****	*****	*****	*****			
	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 MARTIN E. RIVERS, DIRECTOR OF ENVIRONMENTAL QUALITY STAFF TYPED OR PRINTED	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT (SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)	TELEPHONE		DATE		
		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	FTS AREA CODE	856-6601	85	02

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)  
**IN NO CASE SHALL THE QUANTITY DISCHARGED EXCEED THE QUANTITY DETERMINED BY MULTIPLYING THE VOLUME OF THE BATCH OF METAL CLEANING WASTE GENERATED BY THE CONCENTRATION. SEE PERMIT FOR ADDITIONAL SAMPLING REQUIREMENTS.**

NAME **TVA - SEQUOYAH NUCLEAR**  
 ADDRESS **6411 E. BRAINERD RD., CHATTANOOGA TN 37421**

**TN0026450**  
 PERMIT NUMBER

**108 1**  
 DISCHARGE NUMBER

**F - FINAL LIMITS**  
**CONCRETE PLT SETTLING POND**

FACILITY \_\_\_\_\_  
 LOCATION \_\_\_\_\_

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
84	11	01		84	11	30
(20-21)		(22-23) (24-25)		(26-27)		(28-29) (30-31)

NOTE: Read instructions before completing this form.

ATTN: JERRY E. LINER

PARAMETER (32-37)	X	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (38-45) (46-53) (54-61)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
PH		*****	*****	*****		*****					
00400 1 0 EFFLUENT GROSS VALUE		*****	*****	*****	***** MINIMUM	*****	*****	SU		SEE PERMIT	
SOLIDS, TOTAL SUSPENDED		*****	*****	*****	*****	11	24		0	3/30	GR
00530 1 0 EFFLUENT GROSS VALUE		*****	*****	*****	*****	DAILY AV	40	MG/L		WEEKLY GRAB	
OIL AND GREASE (SOXHLET EXTR.) TOT.		*****	*****	*****	*****		<5.0		0	1/30	GR
00550 1 0 EFFLUENT GROSS VALUE		*****	*****	*****	*****	DAILY AV	20	MG/L		ONCE/MONTH GRAB	
FLOW, IN CONDUIT OR THRU TREATMENT PLANT		0.009	0.021	MGD	*****	*****	*****	*****	0	4/30	WEIR
50050 1 0 EFFLUENT GROSS VALUE		*****	*****	*****	*****	*****	*****	*****		WEEKLY FLOIND	

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER MARTIN E. RIVERS, DIRECTOR OF ENVIRONMENTAL QUALITY STAFF	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years)	TELEPHONE		DATE		
		TYPED OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	FTS AREA CODE	856-6601	85

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)  
 THERE WAS NO DISCHARGE ONE WEEK THIS REPORTING PERIOD.

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

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

Form Approved OMB No. 2040-0004 Expires 2-29-84

NAME TENNESSEE VALLEY AUTHORITY  
 ADDRESS 6411 EAST BRAINERD ROAD  
 CHATTANOOGA, TN 37421

TN0026450  
 PERMIT NUMBER

109  
 DISCHARGE NUMBER

EMERGENCY DIESEL GENERATOR  
 NO. 5 COOLING WATER EFFLUENT

FACILITY SEQUOYAH NUCLEAR PLANT  
 LOCATION SODDY, TN 37379

MONITORING PERIOD  
 FROM 84 11 01 TO 84 11 30  
(20-21) (22-23) (24-25) (26-27) (28-29) (30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	X	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (38-45)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
FLOW		NO DISCHARGE			MGD				1/14	P LOG
ERCW SYSTEM TOTAL CHLORINE RESIDUAL	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT						0.8		1/14	GR
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  
 MARTIN E. RIVERS, DIRECTOR  
 OF ENVIRONMENTAL QUALITY  
 STAFF  
 TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE 856-6601  
 DATE 84 02 28  
 FTS AREA CODE NUMBER YEAR MO DAY

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

MONITORING REQUIRED ONLY DURING TESTING PERIODS. ALSO, LIMITATIONS AND MONITORING ARE NOT APPLICABLE DURING AN ACTUAL EMERGENCY SITUATION.



NAME TVA - SEQUOYAH NUCLEAR  
 ADDRESS 6411 E. BRAINERD RD.  
CHATTANOOGA TN 37421

**TN0026450**  
 PERMIT NUMBER

**110 1**  
 DISCHARGE NUMBER

**F - FINAL LIMITS  
 RECYCLED COOLING WATER FLOW**

FACILITY \_\_\_\_\_  
 LOCATION \_\_\_\_\_

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
84	11	01	TO	84	11	30
(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

ATTN: JERRY E. LINER

PARAMETER (32-37)	X	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (38-45) (46-53) (54-61)			UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM				
TEMPERATURE, WATER DEG. FAHRENHEIT 00011 1 0 EFFLUENT GROSS VALUE		*****	*****	*****	NO DISCHARGE						
PH		*****	*****	*****							
00400 1 0 EFFLUENT GROSS VALUE		*****	*****	*****	6.0		9.0	SU			WEEKLYGRAB
CHLORINE, TOTAL RESIDUAL 50060 1 0 EFFLUENT GROSS VALUE		*****	*****	*****	*****	*****	0.10	MG/L			WEEKLYGRAB10

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  
 MARTIN E. RIVERS, DIRECTOR  
 OF ENVIRONMENTAL QUALITY  
 STAFF  
 TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE DATE  
 FTS AREA CODE 856-6601 85 02 28  
 NUMBER YEAR MO DAY

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

ADDITIONAL MONITORING FROM TN DEPT OF PUBLIC HEALTH CERTIFICATION LETTER OF JAN 31, 1983.  
 SEE LETTER FOR REQUIREMENTS TO ESTABLISH RELATIONSHIP BETWEEN FISH DISTRESS/KILL AND CHLORINATION LEVEL.

NAME **TVA - SEQUOYAH NUCLEAR**  
 ADDRESS **6411 N. BRAINERD RD., CHATTANOOGA TN 37421**

**TN0026450**  
 PERMIT NUMBER

**111 1**  
 DISCHARGE NUMBER

**F - FINAL LIMITS  
 STP DISCHARGE**

MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	84	11	01		84	11	30
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

ATTN: JERRY E. LINER

PARAMETER (32-37)	SAMPLE MEASUREMENT / PERMIT REQUIREMENT	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (38-45) (46-53) (54-61)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
BOD, 5-DAY (20 DEG. C) 00310 1 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	3.7	3.9		*****	50	52	MG/L	3	2/30	GR
	PERMIT REQUIREMENT	3.8 30DA AVG	5.0 DAILY MX	LBS/DY	*****	***** 30 DA AVG	***** 40 DA MAX				TWICE/GRAB MONTH
PH	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	*****				
	PERMIT REQUIREMENT	*****	*****	*****	***** MINIMUM	*****	***** MAXIMUM	SU			SEE PERMIT
SOLIDS, TOTAL SUSPENDED 00530 1 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	1.6	1.8		*****	22	24	MG/L	0	2/30	GR
	PERMIT REQUIREMENT	3.8 30DA AVG	5.0 DAILY MX	LBS/DY	*****	30 30DA AVG	40 DAILY MX				TWICE/GRAB MONTH
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	0.007	0.016		*****	*****	*****	*****	0	22/30	WEIR
	PERMIT REQUIREMENT	0.015 DAILY AV	***** DAILY MX	MGD	*****	*****	*****	*****			WEEK-DAYS FLOING
CHLORINE, TOTAL RESIDUAL 50060 1 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	*****	<0.1	<0.4	1.7	MG/L	0	22/30	GR
	PERMIT REQUIREMENT	*****	*****	*****	*****	***** DAILY AV	***** DAILY MX	2.0			WEEK-DAYS GRAB
FECAL COLIFORM	SAMPLE MEASUREMENT				>2000	>2000	>2000	N/100 ML	2	2/30	GR
	PERMIT REQUIREMENT				NA	NA	1000			2/30	GR
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER MARTIN E. RIVERS, DIRECTOR OF ENVIRONMENTAL QUALITY STAFF TYPED OR PRINTED	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC 5 1001 AND 33 USC 5 1319 (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)	TELEPHONE		DATE		
		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	FTS AREA CODE	NUMBER	YEAR	MO

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

A NOTIFICATION OF NONCOMPLIANCE IS ATTACHED.

NOTIFICATION OF NONCOMPLIANCE WITH EFFLUENT LIMITATIONS - NPDES PERMIT  
NO. TN0026450 - SEQUOYAH NUCLEAR PLANT

Description of the discharge--Discharge No. 111 - Sewage treatment plant effluent. The following grab samples had fecal coliform counts and BOD<sub>5</sub> concentrations in excess of the permit limitations of 1000 N/100 ml and 45 mg/L, respectively.

<u>Date</u>	<u>Parameter</u>	<u>Value</u>
11/01	BOD <sub>5</sub> (mg/L)	52
11/01	fecal coliform (N/100 ml)	greater than 2000
11/15	BOD <sub>5</sub>	47
11/15	fecal coliform (N/100 ml)	greater than 2000

Cause and period of the noncompliance--The fecal coliform noncompliance was caused by low (less than 0.1 mg/L) total residual chlorine (TRC) concentrations. The cause of the BOD<sub>5</sub> noncompliances is not known. The plant was not overloaded and we are not aware of any unusual operating conditions during this period. Other samples collected were as follows.

<u>Date</u>	<u>Parameter</u>	<u>Value</u>
10/18	BOD <sub>5</sub> (mg/L)	20
10/18	fecal coliform (N/100 ml)	less than 10
12/05	BOD <sub>5</sub> (mg/L)	35
12/05	fecal coliform (N/100 ml)	150

Therefore, the period of noncompliance was less than 48 days.

Steps taken to reduce, eliminate, and prevent recurrence of the noncomplying discharge--The chlorinator pump stroke setting was adjusted to increase the TRC concentration.

JAN 16 1985



NAME TVA - SEQUOYAH NUCLEAR  
 ADDRESS 6411 E. BRAINERD RD.  
CHATTANOOGA TN 37421

**TN0026450**  
 PERMIT NUMBER

**112 1**  
 DISCHARGE NUMBER

**F - FINAL LIMITS**  
**STP DISCHARGE**

FACILITY \_\_\_\_\_  
 LOCATION \_\_\_\_\_

MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	84	11	01		84	11	30
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

ATTN: JERRY E. LINER

PARAMETER (32-37)	X	(3 Card Only) QUANTITY OR LOADING (46-53) (54-61)			(4 Card Only) QUALITY OR CONCENTRATION (46-53) (54-61)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
FLOW	SAMPLE MEASUREMENT	0.018	0.096	MGD					0	13/30	WEIR
	PERMIT REQUIREMENT	0.025	NA							5/7	WEIR
BOD <sub>5</sub>	SAMPLE MEASUREMENT		7.3	LBS/DAY			35		0	1/30	GR
	PERMIT REQUIREMENT	6.3	8.3			30	40	MG/L		2/7	GR
SUSPENDED SOLIDS	SAMPLE MEASUREMENT		1.9	LBS/DAY			9.0		0	1/30	GR
	PERMIT REQUIREMENT	6.3	8.3			30	40	MG/L		2/30	GR
TOTAL CHLORINE RESIDUAL	SAMPLE MEASUREMENT				<0.1	<0.9	3.3		4	13/30	GR
	PERMIT REQUIREMENT						2.0	MG/L		5/7	GR
FECAL COLIFORM	SAMPLE MEASUREMENT						>2000		1	1/30	GR
	PERMIT REQUIREMENT				NA	NA	1,000	N/100 ML		2/30	GR
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  
 MARTIN E. RIVERS, DIRECTOR  
 OF ENVIRONMENTAL QUALITY  
 STAFF  
 TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: FTS 856-6601  
 DATE: 85 02 28

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)  
 A NOTIFICATION OF NONCOMPLIANCE IS ATTACHED.  
 THERE WAS NO FLOW ONE SAMPLING DAY THIS REPORTING PERIOD.

NOTIFICATION OF NONCOMPLIANCE WITH EFFLUENT LIMITATIONS - NPDES PERMIT  
NO. TN0026450 - SEQUOYAH NUCLEAR PLANT

Description of the discharge--Discharge No. 112 - Sewage treatment plant effluent. The following grab samples had total residual chlorine (TRC) concentrations in excess of the permit limitation of 2.0 mg/L.

<u>Date</u>	<u>Time</u>	<u>TRC Concentration (mg/L)</u>
11/26	1300	2.9
11/28	1200	3.3
	1830	3.0
11/29	0130	2.7

Cause and period of the noncompliance--The TRC noncompliances were due to the chlorinator pump stroke setting being set too high. The following additional samples were collected.

<u>Date</u>	<u>Time</u>	<u>TRC Concentration (mg/L)</u>
11/26	0930	less than 0.1
11/26	1630	1.8
11/27	1230	1.2
11/29	0730	1.5

Therefore, the periods of noncompliance for the November 26 and November 27-29 noncompliances were less than 7 hours and less than 43 hours, respectively.

Steps taken to reduce, eliminate, and prevent recurrence of the noncomplying discharge--The pump stroke setting was reduced to lower the TRC concentrations.

NOTIFICATION OF NONCOMPLIANCE WITH EFFLUENT LIMITATIONS - NPDES PERMIT  
NO. TN0026450 - SEQUOYAH NUCLEAR PLANT

Description of the discharge--Discharge No. 112 - Sewage treatment plant effluent. A grab sample collected on November 1 had a fecal coliform count of greater than 2000 N/100 ml, exceeding the permit limitation of 1000 N/100 ml.

Cause and period of the noncompliance--The noncompliance was caused by a low total residual chlorine (TRC) concentration (less than 0.1 mg/L). A grab sample collected on October 4 had a fecal coliform count of less than 10 N/100 ml and there was no discharge on November 11. Therefore, the period of noncompliance was less than 38 days.

Steps taken to reduce, eliminate, and prevent recurrence of the noncomplying discharge--The chlorinator pump stroke setting was adjusted to increase the TRC concentration.

JAN 16 1985



NAME **TVA - SEQUOYAH NUCLEAR**  
 ADDRESS **6411 E. BRAINERD RD,**  
**CHATTANOOGA TN 37421**

**TN0026450**  
 PERMIT NUMBER

**113 1**  
 DISCHARGE NUMBER

**F - FINAL LIMITS**  
**STP TO COND COOLING WATER CHAN**

FACILITY \_\_\_\_\_  
 LOCATION \_\_\_\_\_  
**ATTN: JERRY E. LINER**

MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
84	11	01	84	11	30
(20-21)	(22-23)	(24-25)	(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	SAMPLE MEASUREMENT	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (38-45)			UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-65)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM				
BOD, 5-DAY (20 DEG. C) 00310 1 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	0.04	0.06		*****	8.5	9.4		0	2/30	GR
	PERMIT REQUIREMENT	7.5 30DA AVG	11.3 DAILY MX	LBS/DY	*****	30 30DA AVG	45 DAILY MX	MG/L		TWICE/GRAB MONTH	
PH	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	*****				
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	*****	SU		SEE PERMIT	
SOLIDS, TOTAL SUSPENDED 00530 1 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	0.03	0.04		*****	9.0	12		0	2/30	GR
	PERMIT REQUIREMENT	7.5 30DA AVG	11.3 DAILY MX	LBS/DY	*****	30 30DA AVG	45 DAILY MX	MG/L		TWICE/GRAB MONTH	
SOLIDS, SETTLEABLE	SAMPLE MEASUREMENT	*****	*****	*****	*****	<0.1	<0.1		0	19/30	GR
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	1.0 DAILY AV	ML/L		WEEK- DAYS	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	0.0002	0.0007		*****	*****	*****	*****	0	19/30	WEIR
	PERMIT REQUIREMENT	0.030 DAILY AV	***** DAILY MX	MGD	*****	*****	*****	*****		WEEK- DAYS	FLOIND
CHLORINE, TOTAL RESIDUAL 50060 1 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	*****	0.3	1.2	2.0		0	25/30	GR
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	2.0 DAILY AV	MG/L		WEEK- DAYS	GRAB
FECAL COLIFORM	SAMPLE MEASUREMENT				<10	<10	<10	N/100 ML	0	2/30	GR
	PERMIT REQUIREMENT						1000			2/30	GR

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  
**MARTIN E. RIVERS, DIRECTOR**  
**OF ENVIRONMENTAL QUALITY**  
**STAFF**  
 TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE  
**856-6601**  
 FTS AREA CODE NUMBER  
 DATE  
**85 02 28**  
 YEAR MO DAY

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

NAME TVA - SEQUOYAH NUCLEAR  
 ADDRESS 6411 E. BRAINERD RD.  
CHATTANOOGA TN 37421

**TN0026450**  
 PERMIT NUMBER

**114 1**  
 DISCHARGE NUMBER

**F - FINAL LIMITS**  
**STP DISCHARGE TO TENN RIVER**

FACILITY \_\_\_\_\_  
 LOCATION \_\_\_\_\_

MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	84	11	01		84	11	30
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

ATTN: JERRY E. LINER

PARAMETER (32-37)	SAMPLE MEASUREMENT	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (38-45)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE (54-55)	MAXIMUM (56-57)	UNITS (58-59)	MINIMUM (38-40)	AVERAGE (41-42)	MAXIMUM (43-44)	UNITS (45)			
BOD, 5-DAY (20 DEG. C) 00310 1 0 EFFLUENT GROSS VALUE	0.28	0.33	LBS/DY	*****	3.6	4.4	MG/L	0	2/30	GR	
PH	3.8	5.05-6	DAILY MX	*****	30	45	MG/L	0	TWICE/GRAB MONTH		
00400 1 0 EFFLUENT GROSS VALUE	*****	*****	*****	*****	6.4	7.0	SU	0	11/30	GR	
SOLIDS, TOTAL SUSPENDED 00530 1 0 EFFLUENT GROSS VALUE	*****	*****	*****	6.0	*****	9.0	SU	0	TWICE/GRAB WEEK		
SOLIDS, SETTLEABLE 00545 1 0 EFFLUENT GROSS VALUE	0.50	0.70	LBS/DY	*****	6.0	6.0	MG/L	0	2/30	GR	
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 EFFLUENT GROSS VALUE	3.8	5.05-6	DAILY MX	*****	30	45	MG/L	0	TWICE/GRAB MONTH		
COLIFORM, FECAL GENERAL 74055 1 0 EFFLUENT GROSS VALUE	*****	*****	*****	*****	<0.1	<0.1	ML/L	0	20/30	GR	
TOTAL RESIDUAL CHLORINE	0.024	0.034	MGD	*****	30	45	MG/L	0	TWICE/GRAB WEEK		
	0.015	NA	*****	*****	*****	*****	*****	0	20/30	WEIR	
	DAILY AV	DAILY MX	*****	*****	*****	*****	*****	0	WEEK-FLOIND DAYS		
	*****	*****	*****	*****	<30	50	#/	0	2/30	GR	
	*****	*****	*****	*****	30	1000	100ML	0	TWICE/GRAB MONTH		
	0.4	0.8	MG/L	0	20/30	GR					
					2.0			0	WEEK-DAYS	GR	

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER MARTIN E. RIVERS, DIRECTOR OF ENVIRONMENTAL QUALITY STAFF	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319 (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)	TELEPHONE		DATE		
		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	FTS AREA CODE	856-6601	85	02

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

NAME **TVA - SEQUOYAH NUCLEAR**  
 ADDRESS **6411 E. BRAINERD RD.**  
**CHATTANOOGA TN 37421**

**TN0026450**  
 PERMIT NUMBER

**114 2**  
 DISCHARGE NUMBER

**F - FINAL LIMITS**  
**STP DISCHARGE TO TENN RIVER**

FACILITY \_\_\_\_\_  
 LOCATION \_\_\_\_\_

MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	84	11	01		84	11	30
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

ATTN: JERRY E. LINER

PARAMETER (32-37)	SAMPLE MEASUREMENT	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUANTITY OR CONCENTRATION (54-61)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
BOD, 5-DAY (20 DEG. C) 00310 1 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	3.8 30DA AVG	5.6 DAILY MX	LBS/DY	*****	30 30DA AVG	45 DAILY MX	MG/L		TWICE/GRAB MONTH	
PH	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	*****				
00400 1 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*****	6.0 MINIMUM	*****	9.0 MAXIMUM	SU		TWICE/GRAB WEEK	
SOLIDS, TOTAL SUSPENDED 00530 1 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	3.8 30DA AVG	5.6 DAILY MX	LBS/DY	*****	30 30DA AVG	45 DAILY MX	MG/L		TWICE/GRAB MONTH	
SOLIDS, SETTLEABLE	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	*****				
00545 1 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*****	*****	30DA AVG	1.0 DAILY MX	ML/L		TWICE/GRAB WEEK	
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	.005 DAILY AV	***** DAILY MX	MGD	*****	*****	*****	*****		WEEK- FLOIND DAYS	
COLIFORM, FECAL GENERAL 74055 1 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*****	*****	30DA GEO	1000 DAILY MX	100ML		TWICE/GRAB MONTH	
DISSOLVED OXYGEN	SAMPLE MEASUREMENT				1.1	1.8	2.8	MG/L	0	20/30 GR	
	PERMIT REQUIREMENT				1.0					5/7 GR	

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  
**MARTIN E. RIVERS, DIRECTOR OF ENVIRONMENTAL QUALITY STAFF**  
 TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: 856-6601  
 DATE: 85 02 28

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



NAME TVA - SEQUOYAH NUCLEAR  
 ADDRESS 6411 E. BRAINERD RD.  
CHATTANOOGA TN 37421

(2-16) **TN0026450** PERMIT NUMBER  
 (17-19) **115 1** DISCHARGE NUMBER

**F - FINAL LIMITS**  
**VEHICLE WASH POND EFFLUENT**

FACILITY \_\_\_\_\_  
 LOCATION \_\_\_\_\_

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
84	11	01	TO	84	11	30
(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

ATTN: JERRY E. LINER

PARAMETER (32-37)	X	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (38-45)			(46-53)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS					
PH		*****	*****	*****	7.9	*****	7.9			0	1/30	GR	
00400 1 0 EFFLUENT GROSS VALUE		*****	*****	*****	6.0 MINIMUM	*****	9.0 MAXIMUM	SU			ONCE/ MONTH	GRAB	
SOLIDS, TOTAL SUSPENDED		*****	*****	*****	*****	8.3	15			0	4/30	GR	
00530 1 0 EFFLUENT GROSS VALUE		*****	*****	*****	*****	30 DAILY AV	40 DAILY MX	MG/L			WEEKLY	GRAB	
SOLIDS, SETTLEABLE		*****	*****	*****	*****	<0.1	<0.1			0	4/30	GR	
00545 1 0 EFFLUENT GROSS VALUE		*****	*****	*****	*****	5 DAILY AV	.5 DAILY MX	ML/L			WEEKLY	GRAB	
OIL AND GREASE (SOXHLET EXTR.) TOT.		*****	*****	*****	*****	<5.0	<5.0			0	4/30	GR	
00550 1 0 EFFLUENT GROSS VALUE		*****	*****	*****	*****	15 DAILY AV	20 DAILY MX	MG/L			WEEKLY	GRAB	
FLOW, IN CONDUIT OR THRU TREATMENT PLANT		0.006*	0.006*		*****	*****	*****	*****		0	4/30	WEIR	
50050 1 0 EFFLUENT GROSS VALUE		*****	*****	MGD	*****	*****	*****	*****			WEEKLY	FLO/IND	

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER MARTIN E. RIVERS, DIRECTOR OF ENVIRONMENTAL QUALITY STAFF  TYPED OR PRINTED	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)	TELEPHONE		DATE		
		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	FTS AREA CODE	856-6601	85	02

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

\*FLOW WAS ESTIMATED THREE WEEKS THIS REPORTING PERIOD.

NAME TVA - SEQUOYAH NUCLEAR  
 ADDRESS 6411 E. BRAINERD RD.  
CHATTANOOGA TN 37421

(2-16) TN0026472  
 PERMIT NUMBER

(17-19) 1011  
 DISCHARGE NUMBER

F - FINAL LIMITS  
 DIFFUSER GATE TO TENN RIVER

FACILITY \_\_\_\_\_  
 LOCATION \_\_\_\_\_

MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	84	12	01		84	12	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

ATTN: JERRY E. LINER

PARAMETER (32-37)	SAMPLE MEASUREMENT	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (54-61)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
TEMPERATURE, WATER DEG. FAHRENHEIT 00011 P 0 SEE COMMENTS BELOW	*****	*****	*****	*****	47.6	50.6	54.3	0	30/30*	GR	
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	*****	DEG.F		SEE PERMIT GRAB10	
TEMPERATURE, WATER DEG. FAHRENHEIT 00011 O 0 SEE COMMENTS BELOW	*****	*****	*****	*****	63.6	68.3	74.1	0	30/30**	REC	
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	112.5	DEG.F		CONTINRCORDR UOUS	
TEMPERATURE, WATER DEG. FAHRENHEIT 00011 R 0 SEE COMMENTS BELOW	*****	*****	*****	*****			*				
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	97.0	DEG.F		CONTINRCORDR UOUS	
TEMPERATURE, WATER DEG. FAHRENHEIT 00011 6 0 DOWNSTREAM MONITOR	*****	*****	*****	*****			*				
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	101.0	DEG.F		DAILY GRAB	
TEMP. DIFF. BETWEEN SAMPLE AND UPSTREAM 00018 0 0 UP- AND DOWN-STREAM	*****	*****	*****	*****	2.6	3.8	4.8	0	31/30	GR	
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	5.4	DEG.F		SEE PERMIT GRAB10	
PH 00400 1 0 EFFLUENT GROSS VALUE	*****	*****	*****	*****	6.0	*****	9.0	SU		SEE PERMIT	
	PERMIT REQUIREMENT	*****	*****	*****	MINIMUM	*****	MAXIMUM				
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 EFFLUENT GROSS VALUE	*****	1803	2333	MGD	*****	*****	*****	*****	0	CONT** REC	
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	*****	*****	*****	CONTINRCORDR UOUS	

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  
 MARTIN E. RIVERS, DIRECTOR OF ENVIRONMENTAL QUALITY STAFF  
 TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE NUMBER: FTS 856-6601  
 DATE: 85 02 28

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments)  
 P CORRESPONDS TO AMBIENT TEMPERATURE, 'Q' TO OPEN MODE, 'S' TO CLOSED MODE. INDICATE WHICH IS APPROPRIATE.  
 SEE PERMIT FOR FURTHER MONITORING REQUIREMENTS.  
 \*PLANT OPERATED IN OPEN MODE ALL MONTH.  
 \*\*DATA NOT AVAILABLE ONE DAY THIS REPORTING PERIOD.

NAME TVA - SEQUOYAH NUCLEAR  
 ADDRESS 6411 E. BRAINERD RD.  
CHATTANOOGA TN 37421

TN0026450  
 PERMIT NUMBER

101 1  
 DISCHARGE NUMBER

F - FINAL LIMITS  
 DIFFUSER GATE TO TENN RIVER

FACILITY \_\_\_\_\_  
 LOCATION \_\_\_\_\_

MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	84	12	01		84	12	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

ATTN: JERRY E. LINER

PARAMETER (32-37)	X	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (46-53) (54-61)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
CHLORINE, TOTAL RESIDUAL 50069 1 0 EFFLUENT GROSS VALUE		*****	*****	*****						*	
TEMPERATURE RATE OF CHANGE DEG. F/HOUR 74029 6 0 DOWNSTREAM MONITOR		0.5	1.5	DEG F/ HOUR	*****	*****	*****	*****		0	30/30**REC
DOWNSTREAM TEMPERATURE		54.2	56.8	DEG F						0	30/30**REC
			86.9								CONT REC

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  
 MARTIN E. RIVERS, DIRECTOR  
 OF ENVIRONMENTAL QUALITY  
 STAFF  
 TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE	DATE
FTS 856-6601	85 02 28
AREA CODE NUMBER	YEAR MO DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)  
 'P' CORRESPONDS TO AMBIENT TEMPERATURE, 'Q' TO OPEN MODE, 'S' TO CLOSED MODE. INDICATE WHICH IS APPROPRIATE.  
 SEE PERMIT FOR FURTHER MONITORING REQUIREMENTS.  
 \*DID NOT CHLORINATE THIS REPORTING PERIOD.  
 \*\*DATA NOT AVAILABLE ONE DAY THIS REPORTING PERIOD.



NAME  TVA - SEQUOYAH NUCLEAR   
 ADDRESS  6411 E. BRALIED RD.   
 CHATTANOOGA TN 37421

TN0026450   
 PERMIT NUMBER

1021   
 DISCHARGE NUMBER

F - FINAL LIMITS  
 YARD DRAINAGE POND EFFLUENT

MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	84	12	01		84	12	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

ATTN: JERRY E. LINED

PARAMETER (32-37)	X	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (38-45) (46-53) (54-61)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
PH		*****	*****	*****	7.2	*****	7.7		0	14/30	GR
00400 1 0 EFFLUENT GROSS VALUE		*****	*****	*****	6.0 MINIMUM	*****	9.0 MAXIMUM	SU		THREE/ WEEK	GRAB
SOLIDS, TOTAL SUSPENDED		*****	*****	*****	*****	16	38		0	21/30	GR
00530 1 0 EFFLUENT GROSS VALUE		*****	*****	*****	*****	30 DAILY AV	100 DAILY MX	MG/L		WEEK- DAYS	GRAB
OIL AND GREASE (SOXHLET EXTR.) TOT.		*****	*****	*****	*****	<5.0	<5.0		0	4/30	GR
00550 1 0 EFFLUENT GROSS VALUE		*****	*****	*****	*****	5 DAILY AV	20 DAILY MX	MG/L		WEEKLY	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT			*		*****	*****	*****	*****			
50050 1 0 EFFLUENT GROSS VALUE		*****	*****	MGD	*****	*****	*****	*****		CONTINUOUS	RECORD

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  
 MARTIN E. RIVERS, DIRECTOR  
 OF ENVIRONMENTAL QUALITY  
 STAFF  
 TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: 856-6601  
 DATE: 85 02 28  
 AREA CODE: 856  
 NUMBER: 856-6601  
 YEAR: 85  
 MO: 02  
 DAY: 28

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments)  
 PH MEASUREMENT FREQUENCY SHALL NOT BE LESS THAN 1/WEEK AFTER 1 YEAR, UNLESS DETERMINED OTHERWISE.  
 \*FLOWMETER OUT THIS REPORTING PERIOD.

NAME TVA - SEQUOYAH NUCLEAR  
 ADDRESS 6411 E. BRAINERD RD.  
CHATTANOOGA TN 37421

(2-16)  
**TN0026450**  
 PERMIT NUMBER

(17-19)  
**103-1**  
 DISCHARGE NUMBER

F - FINAL LIMITS  
 LOW VOL WASTE TREAT POND EFFL

FACILITY \_\_\_\_\_  
 LOCATION \_\_\_\_\_

MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	84	12	01		84	12	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

ATTN: JERRY E. LINER

PARAMETER (32-37)	SAMPLE MEASUREMENT	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (38-45)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)	
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM				UNITS
PH	*****	*****	*****	*****	7.1	*****	9.0	0	15/30	GR	
00400 1 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*****	6.0 MINIMUM	*****	9.0 MAXIMUM	SU	THREE/ WEEK		
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	56	68		*****	16	59	0	5/30	GR	
00530 1 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	380 DAILY AV	1250 DAILY MX	LBS/DY	*****	30 DAILY AV	100 DAILY MX	MG/L	THREE/ WEEK	GRAB	
OIL AND GREASE (SOXHLET EXTR.) TOT.	SAMPLE MEASUREMENT	<52	<55		*****	<5.0	<5.0	0	4/30	GR	
00550 1 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	190 DAILY AV	250 DAILY MX	LBS/DY	*****	15 DAILY AV	20 DAILY MX	MG/L	TWICE/ WEEK	GRAB	
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	1.28	2.40		*****	*****	*****	*****	0	31/30	CAL
50050 1 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	***** DAILY AV	***** DAILY MX	MGD	*****	*****	*****	*****	DAILY	TOTAL	
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  
 MARTIN E. RIVERS, DIRECTOR  
 OF ENVIRONMENTAL QUALITY  
 STAFF  
 TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.

TELEPHONE: 856-6601  
 DATE: 85 02 28  
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT  
 FTS AREA CODE: 856-6601  
 NUMBER: 85  
 YEAR: 02  
 MO: 28  
 DAY: 28

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

IN THE EVENT OF DISCHARGE OF TURBINE BLDG SUMP TO COND COOL WATER CHANNEL OR DRAINAGE POND, TSS, OIL AND GREASE, AND PH SHALL BE MONITORED 5/WEEK.

NAME TVA - SEQUOYAH NUCLEAR  
 ADDRESS 6411 E. BRAINERD RD.  
CHATTANOOGA TN 37421

TN0026450  
 PERMIT NUMBER

104 1  
 DISCHARGE NUMBER

F - FINAL LIMITS  
 RADWSTE SYST TO COOL TWR BLWDN

FACILITY \_\_\_\_\_  
 LOCATION \_\_\_\_\_

MONITORING PERIOD	
FROM	TO
YEAR MO DAY	YEAR MO DAY
84 12 01	84 12 31
(20-21) (22-23) (24-25)	(26-27) (28-29) (30-31)

NOTE: Read instructions before completing this form.

ATTN: JERRY E. LINER

PARAMETER (32-37)	X	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (54-61)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
PH		*****	*****	*****	6.4	*****	7.8		0	7/30	GR
00400 1 0 EFFLUENT GROSS VALUE		*****	*****	*****	6.0 MINIMUM	*****	9.0 MAXIMUM	SU		TWICE/ WEEK	GRAB
SOLIDS, TOTAL SUSPENDED		1.7	2.6		*****	7.1	15		0	7/30	COMP
00530 1 0 EFFLUENT GROSS VALUE		13 DAILY AV	42 DAILY MX	LBS/DY	*****	30 DAILY AV	100 DAILY MX	MG/L		TWICE/ WEEK	COMPOS
OIL AND GREASE (SOXHLET EXTR.) TOT.		<0.94	<1.3		*****	<5.0	<5.0		0	4/30*	GR
00550 1 0 EFFLUENT GROSS VALUE		6.3 DAILY AV	8.3 DAILY MX	LBS/DY	*****	15 DAILY AV	20 DAILY MX	MG/L		TWICE/ WEEK	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT		0.033	0.054		*****	*****	*****	*****	0	22/30	REC
50050 1 0 EFFLUENT GROSS VALUE		***** DAILY AV	***** DAILY MX	MGD	*****	*****	*****	*****		ONCE/ BATCH	RCORDR

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  
 MARTIN E. RIVERS, DIRECTOR  
 OF ENVIRONMENTAL QUALITY  
 STAFF  
 TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: 856-6601  
 DATE: 85 02 28  
 AREA CODE NUMBER YEAR MO DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)  
 DURING ABNORMAL FLOW CONDITIONS, EXCEEDING .05 MGD AS A 7 DAY AVERAGE, DAILY MAXIMUM QUANTITY LIMITS MAY BE EXCEEDED, BUT SHALL NOT EXCEED 4 TIMES LIMITATIONS LISTED.  
 TSS SAMPLE TYPE = 1 GRAB/BATCH COMPOSITED FOR ANALYSIS OVER A 24 HOUR DAY.  
 \*THREE SAMPLES WERE INADVERTENTLY NOT COLLECTED.



NAME **TVA - SEQUOYAH NUCLEAR**  
 ADDRESS **6411 E. BRAINERD RD.**  
**CHATTANOOGA TN 37421**

**TN0026450**  
 PERMIT NUMBER

**105 1**  
 DISCHARGE NUMBER

**F - FINAL LIMITS**  
**REGEN TO COOL TWR BLWDN LINE**

FACILITY \_\_\_\_\_  
 LOCATION \_\_\_\_\_  
**ATTN: JERRY E. LINER**

MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	84	12	01		84	12	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	SAMPLE MEASUREMENT / PERMIT REQUIREMENT	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (46-53)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
PH	SAMPLE MEASUREMENT	*****	*****	*****	8.5	*****	8.7	0	2 BATCHES	GR
00400 1 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*****	6.0 MINIMUM	*****	9.0 MAXIMUM			SU ONCE/ GRAB BATCH
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	3.5	5.0		*****	25	37	0	2 BATCHES	COMP
00530 1 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	25 DAILY AV	83 DAILY MX	LBS/DY	*****	30 DAILY AV	100 DAILY MX			MG/L ONCE/ COMPOS BATCH
OIL AND GREASE (SOXHLET EXTR.) TOT.	SAMPLE MEASUREMENT	<0.73	<0.79		*****	<5.0	<5.0	0	2 BATCHES	GR
00550 1 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	13 DAILY AV	17 DAILY MX	LBS/DY	*****	15 DAILY AV	20 DAILY MX			MG/L DAILY GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.018	0.019		*****	*****	*****	0	2 BATCHES	SCAL
50050 1 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	***** DAILY AV	***** DAILY MX	MGD	*****	*****	*****			ONCE/ CALCTD BATCH
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  
**MARTIN E. RIVERS, DIRECTOR**  
**OF ENVIRONMENTAL QUALITY**  
**STAFF**  
 TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319. Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE	DATE		
FTS 856-6601	85	02	28
AREA NUMBER	YEAR	MO	DAY

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

SHOULD ABNORMAL CONDITIONS NECESSITATE INCREASED WASTE FLOW ABOVE 0.10 MGD, AS A 7 DAY AVERAGE, DAILY MAXIMUM QUANTITY LIMITATIONS MY BE EXCEEDED BUT SHALL NOT EXCEED 2 TIMES THE LIMITATIONS LISTED.

NAME TVA - SEQUOYAH NUCLEAR  
 ADDRESS 6411 E. BRAINERD RD.  
CHATTANOOGA TN 37421

**TN0026450**  
 PERMIT NUMBER

**106 1**  
 DISCHARGE NUMBER

**F - FINAL LIMITS**  
**STM GEN BLWDN TO COOL TWR BLDN**

FACILITY \_\_\_\_\_  
 LOCATION \_\_\_\_\_

MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	84	12	01		84	12	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

ATTN: JERRY E. LINER

PARAMETER (32-37)	X	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (38-45) (54-61)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
PH		*****	*****	*****		*****					
00400 1 0 EFFLUENT GROSS VALUE		*****	*****	*****	*****	*****	*****	SU		SEE PERMIT	
SOLIDS, TOTAL SUSPENDED		<4.8	<9.4		*****	<1.0	<1.0		0	2/30	GR
00530 1 0 EFFLUENT GROSS VALUE		DAILY AV 50	DAILY MX 170	LBS/DY	*****	DAILY AV 30	DAILY MX 100	MG/L		ONCE/MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT		0.57	1.13		*****	*****	*****	*****	0	2/30	INST
50050 1 0 EFFLUENT GROSS VALUE		DAILY AV *****	DAILY MX *****	MGD	*****	*****	*****	*****		ONCE/MONTH	INSTAN

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER MARTIN E. RIVERS, DIRECTOR OF ENVIRONMENTAL QUALITY STAFF TYPED OR PRINTED	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319. Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.	TELEPHONE		DATE		
		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	FTS AREA CODE	856-6601	85	02

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments)  
**SHOULD INTERNAL PLANT CHEMISTRY REQUIREMENTS NECESSITATE INCREASED BLOWDOWN FLOW OVER .2 MGD AS A 7 DAY AVERAGE, DAILY MAXIMUM QUANTITY LIMITATIONS MAY BE EXCEEDED BUT SHALL NOT EXCEED 4 TIMES THE LIMITATIONS LISTED.**

NAME **TVA - SEQUOYAH NUCLEAR**  
 ADDRESS **6411 E. BRAINERD RD.**  
**CHATTANOOGA TN 37421**

**TN0026450**  
 PERMIT NUMBER

**106 2**  
 DISCHARGE NUMBER

**F - FINAL LIMITS**  
**STEAM GEN BLWDN (QUARTERLY)**

FACILITY \_\_\_\_\_  
 LOCATION \_\_\_\_\_

MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	84	10	01		84	12	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

ATTN: JERRY E. LINER

PARAMETER (32-37)	X	(3 Card Only) QUANTITY OR LOADING (46-53) (54-61)			(4 Card Only) QUALITY OR CONCENTRATION (38-45) (46-53) (54-61)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
OIL AND GREASE (SOXHLET EXTR.) TOT. 00550 1 0	SAMPLE MEASUREMENT	<0.66	<0.86		*****	<5.0	<5.0	0	2/30	GR
EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	25 DAILY AV	33 DAILY MX	LBS/DY	*****	15 DAILY AV	20 DAILY MX		QTRLY	GRAB
	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  
**MARTIN E. RIVERS, DIRECTOR**  
**OF ENVIRONMENTAL QUALITY**  
**STAFF**  
 TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1061 AND 33 USC § 1319. (Penalties under these statutes may include fines up to \$100,000 and/or maximum imprisonment of between 5 months and 5 years.)

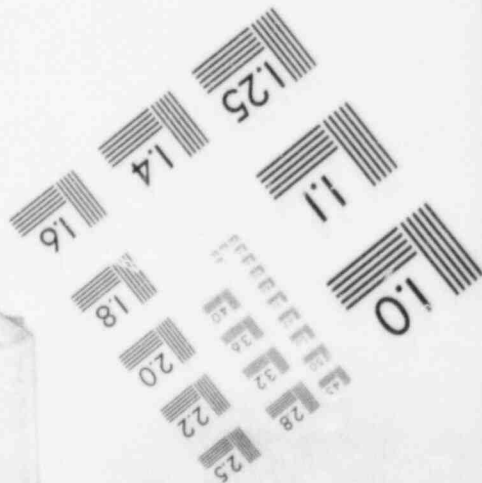
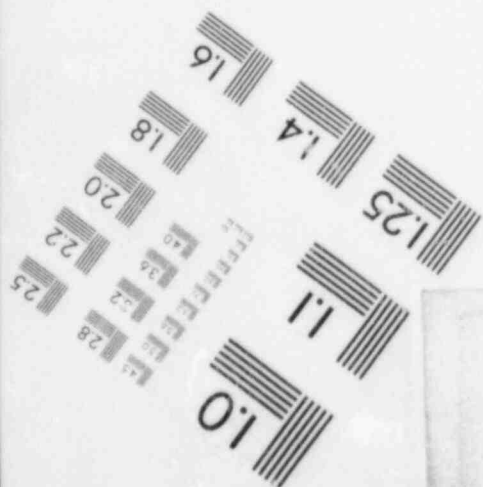
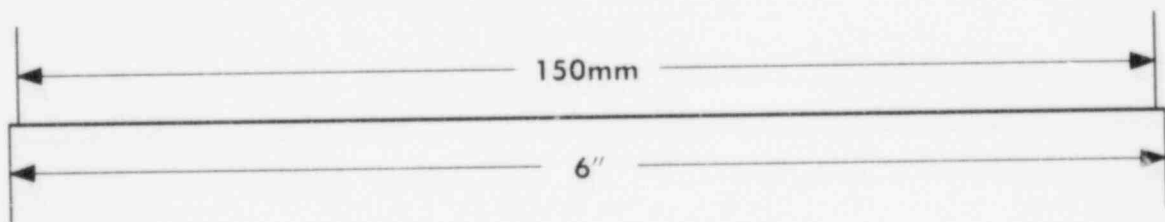
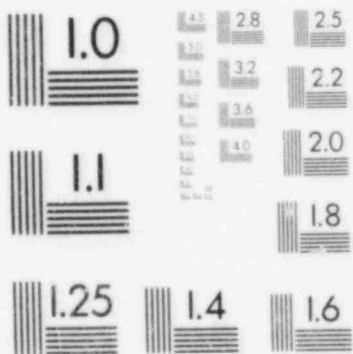
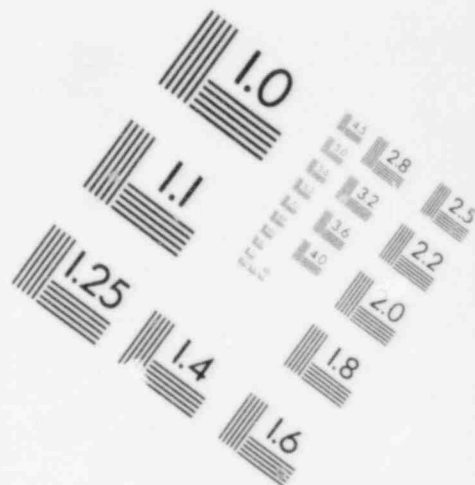
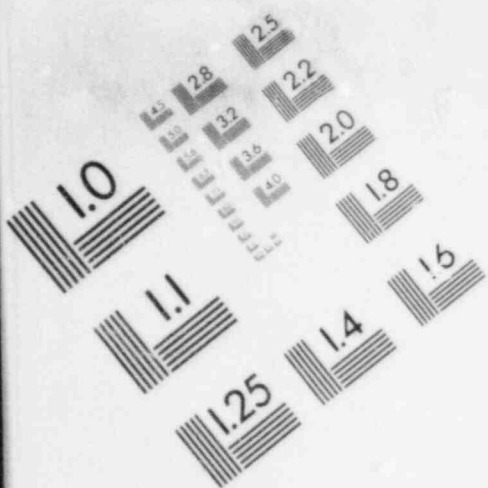
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: 856-6601  
 DATE: 85 02 28  
 FTS AREA CODE: 856-6601  
 NUMBER: 856-6601  
 YEAR: 85  
 MO: 02  
 DAY: 28

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all applicable regulations)  
**SHOULD INTERNAL PLANT CHEMISTRY REQUIREMENTS NECESSITATE INCREASED BLOWDOWN FLOW OVER .2 MGD AS A 7 DAY AVERAGE, DAILY MAXIMUM QUANTITY LIMITATIONS MAY BE EXCEEDED BUT SHALL NOT EXCEED 4 TIMES THE LIMITATIONS LISTED.**



IMAGE EVALUATION  
TEST TARGET (MT-3)



NAME TVA - SEQUOYAH NUCLEAR  
 ADDRESS 6411 E. BRAINERD RD.  
CHATTANOOGA TN 37421

TN0026450  
 PERMIT NUMBER

107 1  
 DISCHARGE NUMBER

F - FINAL LIMITS  
 METAL CLN WASTE PND TO COND CH

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
84	12	01		84	12	31
(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

FACILITY \_\_\_\_\_  
 LOCATION \_\_\_\_\_

ATTN: JERRY E. LINER

PARAMETER (32-37)	SAMPLE MEASUREMENT	QUANTITY OR LOADING (46-53)			QUALITY OR CONCENTRATION (54-61)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
CHEM. OXYGEN DEMAND (HIGH LEVEL) (COD) 00340 1 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT		*	LBS/DAY	*****					
PH	SAMPLE MEASUREMENT	*****	*****	*****	7.5	9.0			0 5/30	GR
00400 1 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*****	6.0	9.0				WEEKLYGRAB
SOLIDS, TOTAL SUSPENDED 00530 1 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	8.9	14	LBS/DAY	*****	2.2	3.0		0 5/30	GR
	PERMIT REQUIREMENT		250		*****	*****	30	MG/L		WEEKLYCOMP-8
OIL AND GREASE (SOXHLET EXTR.) TOT. 00550 1 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	<17	<32	LBS/DAY	*****	<5.0	<5.0		0 5/30	GR
	PERMIT REQUIREMENT		125		*****	*****	15	MG/L		WEEKLYGRAB
PHOSPHORUS, TOTAL (AS P) 00665 1 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT		*	LBS/DAY	*****		*			
	PERMIT REQUIREMENT		8.3		*****	*****	1.0	MG/L		WEEKLYCOMP-8
COPPER, TOTAL (AS CU) 01042 1 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	<0.03	<0.06	LBS/DAY	*****	<0.014	0.05		0 5/30	8-HR COMP
	PERMIT REQUIREMENT		8.3		*****	*****	1.0	MG/L		WEEKLYCOMP-8
IRON, TOTAL (AS FE) 01045 1 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	1.4	2.9	LBS/DAY	*****	0.33	0.45		0 5/30	8-HR COMP
	PERMIT REQUIREMENT		8.3		*****	*****	1.0	MG/L		WEEKLYCOMP-8

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER MARTIN E. RIVERS, DIRECTOR OF ENVIRONMENTAL QUALITY STAFF TYPED OR PRINTED	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 U.S.C. 1001 AND 33 U.S.C. 1319. Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.	TELEPHONE		DATE		
		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	FTS AREA CODE	856-6601	85	02

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all applicable permit conditions)  
**IN NO CASE SHALL THE QUANTITY DISCHARGED EXCEED THE QUANTITY DETERMINED BY MULTIPLYING THE VOLUME OF THE BATCH OF METAL CLEANING WASTE GENERATED BY THE CONCENTRATION. SEE PERMIT FOR ADDITIONAL SAMPLING REQUIREMENTS.**

\*NO PHOSPHORUS OR ORGANIC CHEMICAL BEARING COMPOUNDS WERE USED.

NAME **TVA - SEQUOYAH NUCLEAR**  
 ADDRESS **6411 E. BRAINERD RD., CHATTANOOGA TN 37421**

**TN0026450**  
 PERMIT NUMBER

**107 1**  
 DISCHARGE NUMBER

**F - FINAL LIMITS METAL CLN WASTE PND TO COND CH**

FACILITY \_\_\_\_\_  
 LOCATION \_\_\_\_\_

MONITORING PERIOD  
 FROM **84 12 01** TO **84 12 31**  
(20-21) (22-23) (24-25) (26-27) (28-29) (30-31)

NOTE: Read instructions before completing this form.

ATTN: JERRY E. LINER

PARAMETER (32-37)	X	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (38-45) (46-53) (54-61)				NO. EX (62-65)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 EFFLUENT GROSS VALUE		0.43	0.77	MGD	*****	*****	*****	*****	0	6/30	CAL
		***** DAILY AV	***** DAILY MX		*****	*****	*****	*****		ONCE/ BATCH	CALCTD

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  MARTIN E. RIVERS, DIRECTOR OF ENVIRONMENTAL QUALITY STAFF  TYPED OR PRINTED	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 3 years.)	TELEPHONE		DATE		
		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	FTS AREA CODE	856-6601	85	02

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments, if any)  
**IN NO CASE SHALL THE QUANTITY DISCHARGED EXCEED THE QUANTITY DETERMINED BY MULTIPLYING THE VOLUME OF THE BATCH OF METAL CLEANING WASTE GENERATED BY THE CONCENTRATION. SEE PERMIT FOR ADDITIONAL SAMPLING REQUIREMENTS.**



NAME TVA - SEQUOYAH NUCLEAR  
 ADDRESS 6411 E. BRAINERD RD.  
CHATTANOOGA TN 37421

(2-16) (17-19)

**TN0026450**  
PERMIT NUMBER

**108 1**  
DISCHARGE NUMBER

**F - FINAL LIMITS**  
**CONCRETE PLT SETTLING POND**

FACILITY \_\_\_\_\_  
 LOCATION \_\_\_\_\_

MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	84	12	01		84	12	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

ATTN: JERRY E. LINER

PARAMETER (32-37)	X	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (38-45) (46-53) (54-61)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
PH	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	*****	*****			
00400 1 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	*****	SU		SEE PERMIT	
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	*****	*****	*****	*****	<2.0	3.0		0	3/30	GR
00530 1 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*****	*****	DAILY AV	DAILY MX	40		WEEKLY	GRAB
OIL AND GREASE (SOXHLET EXTR.) TOT.	SAMPLE MEASUREMENT	*****	*****	*****	*****		<5.0		0	1/30	GR
00550 1 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*****	*****	DAILY AV	DAILY MX	20		ONCE/MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.002	0.003		*****	*****	*****	*****	0	4/30	WEIR
50050 1 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	MGD	*****	*****	*****	*****		WEEKLY	FLOINDD
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  
 MARTIN E. RIVERS, DIRECTOR  
 OF ENVIRONMENTAL QUALITY  
 STAFF  
 TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: 856-6601  
 DATE: 85 02 28

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

THERE WAS NO DISCHARGE ONE WEEK THIS REPORTING PERIOD.

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

NAME TENNESSEE VALLEY AUTHORITY  
 ADDRESS 6411 EAST BRAINERD ROAD  
 CHATTANOOGA, TN 37421

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

(2-16) TNO026450 (17-19) 109  
 PERMIT NUMBER DISCHARGE NUMBER

Form Approved  
 OMB No. 2040-0004  
 Expires 2-29-84

EMERGENCY DIESEL GENERATOR  
 NO. 5 COOLING WATER EFFLUENT

FACILITY SEQUOYAH NUCLEAR PLANT  
 LOCATION SODDY, TN 37379

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
84	12	01		84	12	31
(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	X	3 Card Only (46-53) QUANTITY OR LOADING (54-61)			4 Card Only (38-45) QUALITY OR CONCENTRATION (46-53) (54-61)				NO. EX (62-6)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
FLOW		NO DISCHARGE					MGD				
		PERMIT REQUIREMENT								1/14	P LOG
ERCW SYSTEM TOTAL CHLORINE RESIDUAL											
								0.8		1/14	GR

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  
 MARTIN E. RIVERS, DIRECTOR  
 OF ENVIRONMENTAL QUALITY  
 STAFF  
 TYPED OR PRINTED

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SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE DATE  
 FTS 856-6601 84 02 28  
 AREA NUMBER YEAR MO DAY

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

MONITORING REQUIRED ONLY DURING TESTING PERIODS. ALSO, LIMITATIONS AND MONITORING ARE NOT APPLICABLE DURING AN ACTUAL EMERGENCY SITUATION.

NAME **TVA - SEQUOYAH NUCLEAR**  
 ADDRESS **6411 E. BRAINERD RD., CHATTANOOGA TN 37421**

**TN0026450**  
 PERMIT NUMBER

**110 1**  
 DISCHARGE NUMBER

**F - FINAL LIMITS RECYCLED COOLING WATER FLOW**

FACILITY \_\_\_\_\_  
 LOCATION \_\_\_\_\_

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
84	12	01	TO	84	12	31
(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

ATTN: JERRY E. LINER

PARAMETER (32-37)	X	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (38-45)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE (54-61)	MAXIMUM (54-61)	UNITS (54-61)	MINIMUM (38-45)	AVERAGE (38-45)	MAXIMUM (38-45)	UNITS (38-45)			
TEMPERATURE, WATER DEG. FAHRENHEIT 00011 1 0 EFFLUENT GROSS VALUE		*****	*****	*****	NO DISCHARGE						
PH		*****	*****	*****							
00400 1 0 EFFLUENT GROSS VALUE		*****	*****	*****	6.0 MINIMUM	*****	9.0 MAXIMUM		SU		WEEKLYGRAB
CHLORINE, TOTAL RESIDUAL 50060 1 0 EFFLUENT GROSS VALUE		*****	*****	*****	*****	*****	0.10 DAILY MX		MG/L		WEEKLYGRAB10

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  
**MARTIN E. RIVERS, DIRECTOR OF ENVIRONMENTAL QUALITY STAFF**  
 TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319 (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE	DATE
FTS 856-6601 AREA NUMBER	85 02 28 YEAR MO DAY

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

ADDITIONAL MONITORING FROM TN DEPT OF PUBLIC HEALTH CERTIFICATION LETTER OF JAN 31, 1983. SEE LETTER FOR REQUIREMENTS TO ESTABLISH RELATIONSHIP BETWEEN FISH DISTRESS/KILL AND CHLORINATION LEVEL.



NAME TVA - SEQUOYAH NUCLEAR  
 ADDRESS 6411 E. BRAINERD RD.  
CHATTANOOGA TN 37421

TN0026450  
 PERMIT NUMBER

111 1  
 DISCHARGE NUMBER

F - FINAL LIMITS  
 STP DISCHARGE

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
84	12	01		84	12	31
(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

FACILITY \_\_\_\_\_  
 LOCATION \_\_\_\_\_

NOTE: Read instructions before completing this form.

ATTN: JERRY E. LINER

PARAMETER (32-37)	SAMPLE MEASUREMENT / PERMIT REQUIREMENT	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (38-45) (46-53) (54-61)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
BOD, 5-DAY (20 DEG. C) 00310 1 0	SAMPLE MEASUREMENT	0.91	1.5		*****	44	53	MG/L	2	2/30	GR
EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	3.8 30DA AVG	9.3 5.0 DAILY MX	LBS/DY	*****	30 DA AVG	40 DAILY MAX				TWICE/GRAB MONTH
PH	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	*****				
EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	*****	SU			SEE PERMIT
SOLIDS, TOTAL SUSPENDED 00530 1 0	SAMPLE MEASUREMENT	0.55	0.88		*****	30	38		0	2/30	GR
EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	3.86 30DA AVG	5.05 6 DAILY MX	LBS/DY	*****	30 30DA AVG	40 45 DAILY MX	MG/L			TWICE/GRAB MONTH
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0	SAMPLE MEASUREMENT	0.003	0.014		*****	*****	*****	*****	0	18/30	WEIR
EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	0.015 DAILY AV	***** DAILY MX	MGD	*****	*****	*****	*****			WEEK-DAYS FLOIND
CHLORINE, TOTAL RESIDUAL 50060 1 0	SAMPLE MEASUREMENT	*****	*****	*****	<0.1	<0.7	1.8		0	19/30	WEIR
EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	2.0 DAILY AV	MG/L			WEEK-DAYS GRAB
FECAL COLIFORM	SAMPLE MEASUREMENT				<10	<80	150	N/100 ML	0	2/30	GR
	PERMIT REQUIREMENT				NA	NA	1000			2/30	GR
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  
 MARTIN E. RIVERS, DIRECTOR  
 OF ENVIRONMENTAL QUALITY  
 STAFF  
 TYPED OR PRINTED

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SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: 856-6601  
 DATE: 85 02 28

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)  
 A NOTIFICATION OF NONCOMPLIANCE IS ATTACHED.

NOTIFICATION OF NONCOMPLIANCE WITH EFFLUENT LIMITATIONS - NPDES PERMIT  
NO. TN0026450 - SEQUOYAH NUCLEAR PLANT

Description of the discharge--Discharge No. 111 - Sewage treatment plant effluent. The grab sample collected on December 20, 1984, had a BOD<sub>5</sub> concentration of 53 mg/L, exceeding the maximum permit limitation of 45 mg/L.

Cause and period of the noncompliance--The cause of this BOD<sub>5</sub> noncompliance is not known. The plant was not overloaded and we are unaware of any unusual operating conditions during this timeframe. Analyses on grab samples for BOD<sub>5</sub> collected December 6, 1984, and January 3, 1985, were 35 and 4.4 mg/L, respectively. Thus, the maximum period of noncompliance was 28 days.

Steps taken to reduce, eliminate, and prevent recurrence of the noncomplying discharge--No action is being taken at this particular time since the exact cause of the noncompliance is not known.

NAME **TVA - SEQUOYAH NUCLEAR**  
ADDRESS **6411 E. BRAINERD RD.**  
**CHATTANOOGA TN 37421**

**TN0026450**  
PERMIT NUMBER

**112 1**  
DISCHARGE NUMBER

**F - FINAL LIMITS  
STP DISCHARGE**

FACILITY  
LOCATION  
**TIN: JERRY E. LINER**

MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	84	12	01		84	12	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	SAMPLE MEASUREMENT / PERMIT REQUIREMENT	(3 Card Only) QUANTITY OR LOADING (46-53) (54-61)			(4 Card Only) QUALITY OR CONCENTRATION (38-45) (46-53) (54-61)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
FLOW	SAMPLE MEASUREMENT	0.035	0.099	MGD				0	9/30	GR
	PERMIT REQUIREMENT	0.025	NA						5/7	WEIR
BOD <sub>5</sub>	SAMPLE MEASUREMENT	0.73	1.1	LBS/DAY	18	31	43	2	2/30	GR
	PERMIT REQUIREMENT	6.3	8.3			30	40		2/30	GR
SUSPENDED SOLIDS	SAMPLE MEASUREMENT	0.31	0.53	LBS/DAY	9.0	10	10	0	2/30	GR
	PERMIT REQUIREMENT	6.3	8.3			30	40		2/30	GR
TOTAL CHLORINE RESIDUAL	SAMPLE MEASUREMENT				<0.1	<0.9	1.8	0	13/30	GR
	PERMIT REQUIREMENT						2.0		5/7	GR
FECAL COLIFORM	SAMPLE MEASUREMENT				<10	<10	<10	0	2/30	GR
	PERMIT REQUIREMENT				NA	NA	1,000		2/30	GR
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER <b>MARTIN E. RIVERS, DIRECTOR OF ENVIRONMENTAL QUALITY STAFF</b> TYPED OR PRINTED	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319. Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.	TELEPHONE		DATE		
		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	FTS AREA CODE	856-6601	85	02

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



NAME TVA - SEQUOYAH NUCLEAR  
 ADDRESS 6411 E. BRAINERD RD.  
CHATTANOOGA TN 37421

TN0026450  
 PERMIT NUMBER

113-1  
 DISCHARGE NUMBER

F - FINAL LIMITS  
 STP TO COND COOLING WATER CHAN

FACILITY \_\_\_\_\_  
 LOCATION \_\_\_\_\_

MONITORING PERIOD					
FROM			TO		
YEAR	MO	DAY	YEAR	MO	DAY
84	12	01	84	12	31
(20-21) (22-23) (24-25)			(26-27) (28-29) (30-31)		

NOTE: Read instructions before completing this form.

ATTN: JERRY E. LINER

PARAMETER (32-37)	X	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (54-61)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
BOD, 5-DAY (20 DEG. C) 00310 1 0 EFFLUENT GROSS VALUE		0.04	0.05	LBS/DY	*****	13	17	MG/L	0	2/30	GR
PH		*****	*****	*****	*****	30	40.45	MG/L		TWICE/GRAB MONTH	
00400 1 0 EFFLUENT GROSS VALUE		*****	*****	*****	*****	30DA AVG	DAILY MX	SU		SEE PERMIT	
SOLIDS, TOTAL SUSPENDED 00530 1 0 EFFLUENT GROSS VALUE		0.17	0.20	LBS/DY	*****	54	79	MG/L	2	2/30	GR
SOLIDS, SETTLEABLE 00545 1 0 EFFLUENT GROSS VALUE		*****	*****	*****	*****	30DA AVG	DAILY MX	ML/L	0	20/30	GR
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 EFFLUENT GROSS VALUE		0.0012	0.0055	MGD	*****	<0.1	0.3	ML/L	0	20/30	WEIR
CHLORINE, TOTAL RESIDUAL 50060 1 0 EFFLUENT GROSS VALUE		0.030	NA	DAILY AV	*****	*****	*****	MG/L	1	20/30	GR
FECAL COLIFORM		*****	*****	*****	*****	DAILY AV	DAILY MX	ML	0	2/30	GR
					NA	NA	1000			2/30	GR

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  
MARTIN E. RIVERS, DIRECTOR OF ENVIRONMENTAL QUALITY STAFF  
 TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$100,000 and/or maximum imprisonment of between 6 months and 5 years.)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT  
 TELEPHONE NUMBER: 856-6601  
 DATE: 85 02 28

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

A NOTIFICATION OF NONCOMPLIANCE IS ATTACHED.

NOTIFICATION OF NONCOMPLIANCE WITH EFFLUENT LIMITATIONS - NPDES PERMIT  
NO. TN0026450 - SEQUOYAH NUCLEAR PLANT

Description of the discharge--Discharge No. 113 - Sewage treatment plant effluent. The following grab samples had total residual chlorine (TRC) and total suspended solids (TSS) concentrations in excess of the NPDES permit limitations of 2.0 and 45 mg/L, respectively.

<u>Date</u>	<u>Parameter</u>	<u>Concentration (mg/L)</u>
12/20/84	TSS	79
12/31/84	TRC	4.0
01/03/85	TSS	51
01/16/85	TSS	47

Cause and period of the noncompliance--The TRC noncompliance occurred when the flow of sewage to the plant decreased to zero and the chlorinator pump continued to operate. The cause of the TSS noncompliances is not known. Grab samples collected on December 28 at 1400 and on January 2 at 1130 had TRC concentrations of 0.4 and 0.9 mg/L, respectively. In addition, grab samples collected on December 6 and February 14 had TSS concentrations of 29 and 12 mg/L, respectively. Therefore, the maximum periods of noncompliance for the TRC and TSS noncompliances were approximately 5 days and 71 days, respectively.

Steps taken to reduce, eliminate, and prevent recurrence of the noncomplying discharge--Flow to the plant resumed, and the chlorinator pump was adjusted to an appropriate setting.

NAME **TVA - SEQUOYAH NUCLEAR**  
 ADDRESS **6411 E. BRAINERD RD., CHATTANOOGA TN 37421**

**TN0026450**  
 PERMIT NUMBER

**114 1**  
 DISCHARGE NUMBER

**F - FINAL LIMITS**  
**STP DISCHARGE TO TENN RIVER**

FACILITY \_\_\_\_\_  
 LOCATION \_\_\_\_\_

MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	84	12	01		84	12	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

ATTN: JERRY E. LINER

PARAMETER (32-37)	SAMPLE MEASUREMENT / PERMIT REQUIREMENT	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (38-45) (46-53) (54-61)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-65)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
BOD, 5-DAY (20 DEG. C) 00310 1 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT 0.34 PERMIT REQUIREMENT 3.8 30DA AVG	0.60	5.0	LBS/DY	*****	2.7	4.0	MG/L	0	2/30	GR
PH	SAMPLE MEASUREMENT ***** PERMIT REQUIREMENT *****	*****	*****	*****	6.7	*****	7.1	*****	0	9/30	GR
00400 1 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT ***** PERMIT REQUIREMENT *****	*****	*****	*****	6.0 MINIMUM	*****	9.0 MAXIMUM	SU	0	TWICE/GRAB WEEK	
SOLIDS, TOTAL SUSPENDED 00530 1 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT 1.7 PERMIT REQUIREMENT 3.8 30DA AVG	3.2	5.0	LBS/DY	*****	13	21	MG/L	0	2/30	GR
SOLIDS, SETTLEABLE 00545 1 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT ***** PERMIT REQUIREMENT *****	*****	*****	*****	*****	<0.2	1.0	ML/L	0	20/30	GR
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT 0.014 PERMIT REQUIREMENT .010 DAILY AV	0.032	*****	MGD	*****	*****	*****	*****	0	20/30	WEIR
COLIFORM, FECAL GENERAL 74055 1 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT ***** PERMIT REQUIREMENT *****	*****	*****	*****	*****	<55	100	#/	0	2/30	GR
TOTAL RESIDUAL CHLORINE	SAMPLE MEASUREMENT 0.3 PERMIT REQUIREMENT 2.0	0.9	1.8	MG/L	0	20/30	GR	0	20/30	GR	

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  
**MARTIN E. RIVERS, DIRECTOR OF ENVIRONMENTAL QUALITY STAFF**  
 TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319. Penalties under these statutes may include, but not be limited to, a fine and/or maximum imprisonment of between 6 months and 5 years.

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: 856-6601  
 DATE: 85 02 28

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



NAME TVA - SEQUOYAH NUCLEAR  
 ADDRESS 6411 E. BRAINERD RD.  
CHATTANOOGA TN 37421

TN0026450  
 PERMIT NUMBER

114 2  
 DISCHARGE NUMBER

**F - FINAL LIMITS**  
**STP DISCHARGE TO TENN RIVER**

FACILITY \_\_\_\_\_  
 LOCATION \_\_\_\_\_

MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	84	12	01		84	12	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

ATTN: JERRY E. LINER

PARAMETER (32-37)	SAMPLE MEASUREMENT	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (54-61)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
BOD, 5-DAY (20 DEG. C) 00310 1 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	3.8 30DA AVG	5.6 DAILY MX	LBS/DY	*****	30 30DA AVG	45 DAILY MX	MG/L	TWICE/GRAB MONTH	
PH	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	*****			
00400 1 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*****	6.0 MINIMUM	*****	9.0 MAXIMUM	SU	TWICE/GRAB WEEK	
SOLIDS, TOTAL SUSPENDED 00530 1 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	3.8 30DA AVG	5.6 DAILY MX	LBS/DY	*****	30 30DA AVG	45 DAILY MX	MG/L	TWICE/GRAB MONTH	
SOLIDS, SETTLEABLE 00545 1 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*****	*****	30DA AVG	1.0 DAILY MX	ML/L	TWICE/GRAB WEEK	
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	.005 DAILY AV	***** DAILY MX	MGD	*****	*****	*****	*****	WEEK- FLOIND DAYS	
COLIFORM, FECAL GENERAL 74055 1 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*****	*****	30DA GEO	1000 DAILY MX	100ML	TWICE/GRAB MONTH	
DISSOLVED OXYGEN	SAMPLE MEASUREMENT				2.3	4.8	7.2	MG/L	0	20/30 GR
	PERMIT REQUIREMENT				1.0					5/7 GR

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  
MARTIN E. RIVERS, DIRECTOR  
OF ENVIRONMENTAL QUALITY  
STAFF  
 TYPED OR PRINTED

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SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT  
 TELEPHONE: 856-6601  
 DATE: 85 02 28

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

NAME **TVA - SEQUOYAH NUCLEAR**  
 ADDRESS **6411 E. BRAINERD RD.**  
**CHATTANOOGA TN 37421**

**TN0026450**  
 PERMIT NUMBER

**115 1**  
 DISCHARGE NUMBER

**F - FINAL LIMITS**  
**VEHICLE WASH POND EFFLUENT**

FACILITY \_\_\_\_\_  
 LOCATION \_\_\_\_\_

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
84	12	01	TO	84	12	31
(20-21)		(22-23) (24-25)		(26-27)		(28-29) (30-31)

NOTE: Read instructions before completing this form.

ATTN: JERRY E. LINER

PARAMETER (32-37)	SAMPLE MEASUREMENT / PERMIT REQUIREMENT	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (38-45) (46-53) (54-61)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-65)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
PH	SAMPLE MEASUREMENT	*****	*****	*****	7.3	*****	7.3	0	1/30	GR
00400 1 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*****	6.0 MINIMUM	*****	9.0 MAXIMUM		ONCE/ MONTH	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	*****	*****	*****	*****	16	21	0	3/30	GR
00530 1 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*****	*****	30 DAILY AV	40 DAILY MX		WEEKLY	GRAB
SOLIDS, SETTLEABLE	SAMPLE MEASUREMENT	*****	*****	*****	*****	<0.1	<0.1	0	3/30	GR
00545 1 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	.5 DAILY MX		WEEKLY	GRAB
OIL AND GREASE (SOXHLET EXTR.) TOT.	SAMPLE MEASUREMENT	*****	*****	*****	*****	<5.0	<5.0	0	3/30	GR
00550 1 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*****	*****	15 DAILY AV	20 DAILY MX		WEEKLY	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.004*	0.006*	*****	*****	*****	*****	0	4/30	WEIR
50050 1 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	MGD	*****	*****	*****		WEEKLY	FLOIND
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  
**MARTIN E. RIVERS, DIRECTOR**  
**OF ENVIRONMENTAL QUALITY**  
**STAFF**  
 TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319. Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE  
 FTS 856-6601  
 AREA NUMBER  
 DATE  
 85 02 28  
 YEAR MO DAY

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

THERE WAS NO DISCHARGE ONE WEEK THIS REPORTING PERIOD.  
 FLOW WAS ESTIMATED TWO WEEKS THIS REPORTING PERIOD.

NAME TVA - SEQUOYAH NUCLEAR  
 ADDRESS 6411 E. BRAINERD RD.  
CHATTANOOGA TN 37421

TN0026450  
 PERMIT NUMBER

101 1  
 DISCHARGE NUMBER

F - FINAL LIMITS  
 DIFFUSER GATE TO TENN RIVER

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
85	01	01		85	01	31
(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

FACILITY \_\_\_\_\_  
 LOCATION \_\_\_\_\_  
 ATTN: JERRY E. LINER

PARAMETER (32-37)	X	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (46-53)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
TEMPERATURE, WATER DEG. FAHRENHEIT 00011 P 0 SEE COMMENTS BELOW	SAMPLE MEASUREMENT	*****	*****	*****	39.3	45.1	53.0		0	30/30*	GR
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	*****	DEG.F		SEE PERMIT	GRAB10
TEMPERATURE, WATER DEG. FAHRENHEIT 00011 0 0 SEE COMMENTS BELOW	SAMPLE MEASUREMENT	*****	*****	*****	63.1	71.3	78.6		0	30/30*	REC
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	112.5	DEG.F		CONTINUOUS	RCORDR
TEMPERATURE, WATER DEG. FAHRENHEIT 00011 R 0 SEE COMMENTS BELOW	SAMPLE MEASUREMENT	*****	*****	*****			**				
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	97.0	DEG.F		CONTINUOUS	RCORDR
TEMPERATURE, WATER DEG. FAHRENHEIT 00011 6 0 DOWNSTREAM MONITOR	SAMPLE MEASUREMENT	*****	*****	*****			**				
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	101.0	DEG.F		DAILY	GRAB
TEMP DIFF. BETWEEN SAMPLE AND UPSTREAM 00018 M 0 UP- AND DOWN-STREAM	SAMPLE MEASUREMENT	*****	*****	*****	3.2	5.1	7.3		11	31/30	GR
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	5.4	DEG.F		SEE PERMIT	GRAB10
PH	SAMPLE MEASUREMENT	*****	*****	*****							
	PERMIT REQUIREMENT	*****	*****	*****	6.0	*****	9.0	SU		SEE PERMIT	
EFFLUENT GROSS VALUE FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	1688	2316		*****	*****	*****	*****	0	CONT	REC
	PERMIT REQUIREMENT	*****	*****	MGD	*****	*****	*****	*****		CONTINUOUS	RCORDR

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER MARTIN E. RIVERS, DIRECTOR OF ENVIRONMENTAL QUALITY STAFF TYPED OR PRINTED	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 3 years.)	TELEPHONE	DATE		
		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT ETS AREA CODE	856-6601	85	02

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)  
 F - CORRESPONDS TO AMBIENT TEMPERATURE, 'O' TO OPEN MODE, 'S' TO CLOSED MODE. INDICATE WHICH IS APPROPRIATE. \*COMPUTER MALFUNCTIONED ONE DAY THIS REPORTING PERIOD.  
 SEE PERMIT FOR FURTHER MONITORING REQUIREMENTS. \*\*PLANT OPERATED IN OPEN MODE ALL MONTH.  
 A NOTIFICATION OF NONCOMPLIANCE IS ATTACHED.



NOTIFICATION OF NONCOMPLIANCE WITH EFFLUENT LIMITATIONS - NPDES PERMIT  
NO. TN0026450 - SEQUOYAH NUCLEAR PLANT (SQN)

Description of the discharge--Discharge No. 101 - Diffuser discharge gate. During January the temperature rise limit (5.4°F or 3.0°C) and rate of temperature change limit ( $\pm 3.6^\circ\text{F}$  or  $\pm 2.0^\circ\text{C}$ ) were exceeded. Because there were several occurrences, these are detailed in the next section.

Cause and period of the noncompliance--Unprecedented cold temperatures during January 1985 created a large demand on the TVA power system. In January, SQN operated at full 2-unit load for the first time during severe cold weather. Lack of rainfall in November-January caused low flow conditions and reservoir storage below normal levels. Hydro plants were scheduled to peak during periods of high demand and hold back flow during the morning hours. Figure 1 shows the major plant features and the location of instream temperature monitors.

Four separate noncompliances with the temperature rise limit occurred on January 7, 11, and 18. Problems associated with malfunctioning equipment (cooling tower lift pumps) were responsible for the noncompliances. Computed compliance model results were not valid from January 20-31 when a diffuser gate was closed, causing bad input to the model. Backup instream temperature monitors showed no further temperature rise noncompliances during January 20-31. However, there were times when the rate of temperature change limit was exceeded in the instream temperature monitor data during that period. These occurrences were due to cooling tower lift pump problems which caused large changes in the pond temperature before discharge. The plant was on full closed mode (2-tower operation) between January 20-31. The following paragraphs detail the events, starting on January 7, which led to the thermal noncompliances at SQN. Plant operating loads, cooling tower use, and air temperatures are shown in Figure 2. Figure 3 shows the temperature rise and riverflow data. Figure 4 shows rate of temperature change data and discharge pond temperatures.

The first noncompliance occurred on January 7 at 0545 CST. The maximum temperature rise ( $\Delta T$ ) was 5.6°F. Temperature rises exceeded the thermal limit for two hours. SQN was operating at full power. Riverflow, scheduled for hydro peaking operation, fell to 14,700 cubic feet per second (cfs) at 0645 CST. Riverflows increased immediately after the limit was exceeded. One cooling tower was placed in service at 2030 CST, anticipating further high temperature rises during the next morning low flow period.

The scheduling model used to determine the effects of riverflow on the thermal limits at SQN showed partial cooling tower operation was needed to meet the thermal limits. The plant had experienced problems with the cooling tower lift pumps and plant operators were concerned about and reluctant to use partial cooling tower operation because of extremely cold weather. Last year partial usage led to severe icing damage that cost approximately one-half million dollars to repair. For these reasons, full tower operations were not commenced immediately resulting in the noncompliance.

The second noncompliance occurred on January 11 at 0030 CST. The maximum temperature rise was 5.6°F. Temperature rises were above the limit for one and one-half hours. Riverflow at SQN was as low as 14,300 cfs during this period. A third noncompliance occurred at 0445 CST, reached a maximum of 5.7°F and lasted one hour. Riverflow had increased for a period of two hours but then decreased to 21,900 cfs causing the added temperature rise problems. SQN was operating one tower, open/helper mode, anticipating low-flow induced temperature rise problems. The cooling tower placed in operation on January 10 at 2300 CST was started too late to prevent these noncompliances.

The fourth noncompliance occurred on January 18 starting at 1615 CST. The maximum temperature rise was 5.6°F. Total duration above 5.4°F was one hour. SQN operated at full 2-unit operation with one cooling tower in service (helper mode). Riverflow dropped to 7,700 cfs and this flow was not enough for operation of only one tower. The second tower was placed in service at 1800 (helper mode).

On January 20, SQN went to full closed mode operation to prevent further icing which was first observed on January 19. While on closed mode, a diffuser gate was closed routing all flow through one diffuser leg. The computed compliance model had been previously changed to use only two diffuser leg operation. The computed discharge flow is based on the difference between elevation in the diffuser pond and the river. The closed diffuser gate caused the model to receive false diffuser flow rate information and produced invalid results. This continued through January 31 at 1020 CST when the diffuser gate was opened during transition to open mode operation. Backup temperature monitors in the river from January 20-31 (figure 3), show temperature rises below the limit during the closed mode operation. Procedures at the plant will be changed to leave both diffuser gates open during all plant operations. Discharge flow measurements will also be calibrated under low flow and closed mode operation.

During January 20-31, there were times when the river monitored data were outside the rate of temperature change limit. Figure 4 shows this data along with the discharge pond temperatures. Measured values exceeding the limit coincide with large changes in discharge pond temperature. The plant had problems with the cooling tower lift pumps during most of closed mode operation. When a lift pump failed, the heated water it was pumping had to be discharged into the diffuser discharge pond. All noncompliances of the rate of temperature change limits were an hour or less. Table 1 lists these occurrences and provides starting times, maximum values, and durations. Lift pump maintenance will be improved to provide better operation during cooling tower use.

Steps taken to reduce, eliminate, and prevent recurrence of the noncomplying discharge--TVA is currently assessing cooling tower damage and procedures to be followed when cooling tower icing is expected. During periods of possible icing, full cooling (as opposed to partial) tower operation will be implemented when the scheduling model indicates that the thermal limits cannot be met in open mode. Plant procedures will be changed to keep diffuser gates open during all plant operation. The computer model for verification of compliance with the thermal limits will be calibrated for closed mode operation. Cooling tower lift pumps will be repaired, and maintained and tested on a periodic basis to be ready for future cooling tower operation.

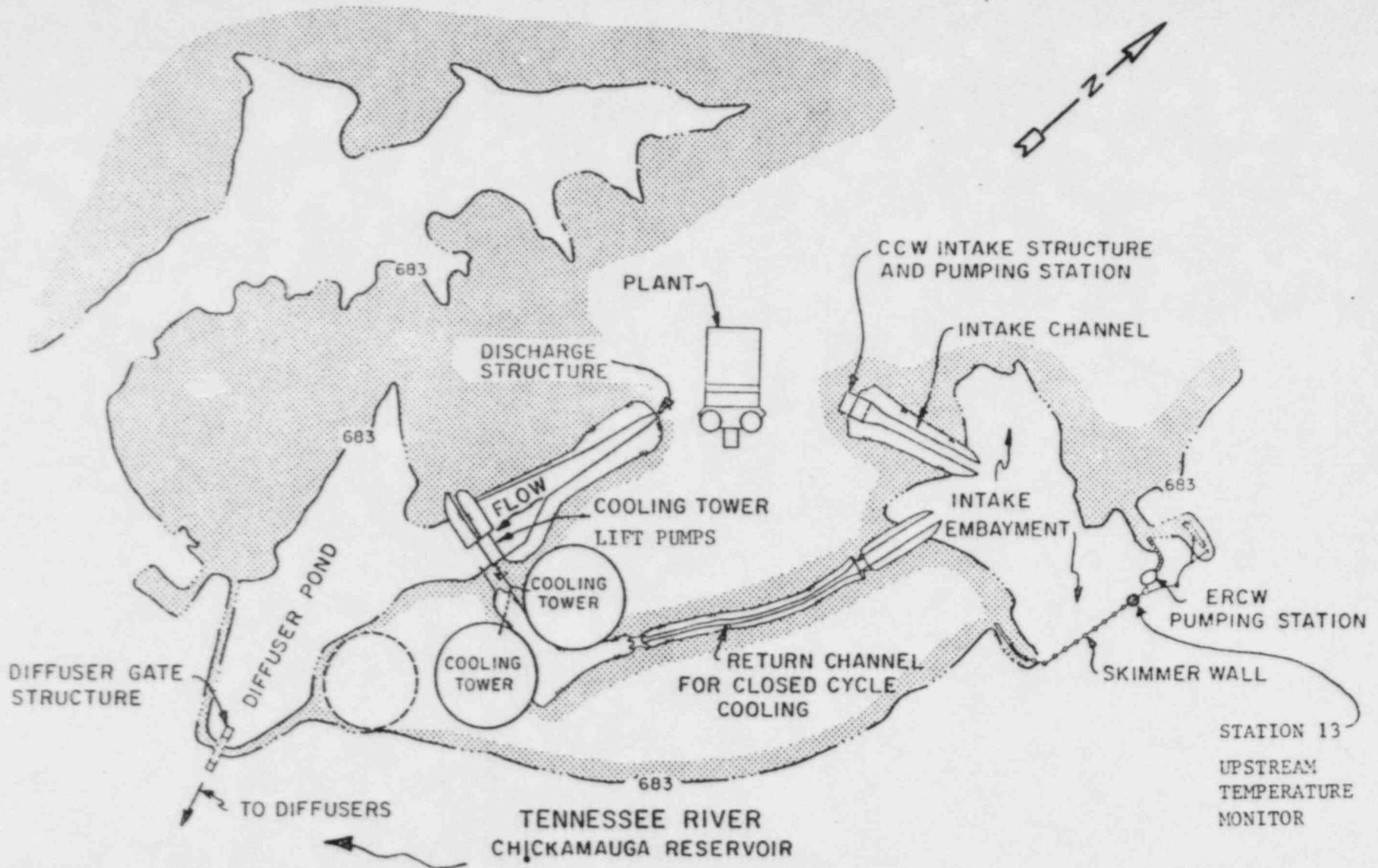


Figure 1: General Plan of the Sequoyah Nuclear Plant

● STATION 8  
DOWNSTREAM  
TEMPERATURE  
MONITOR



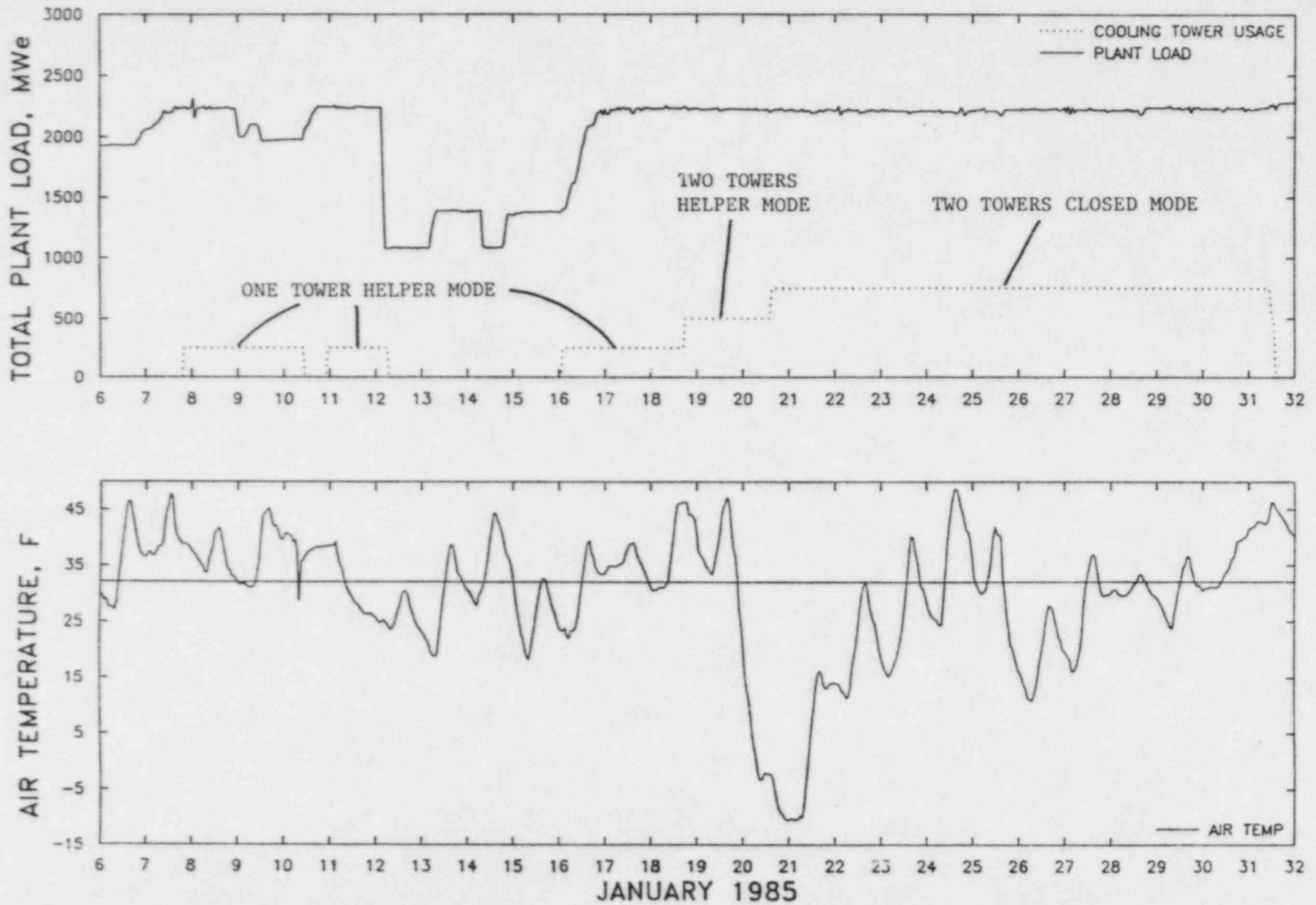


FIGURE 2. SEQUOYAH NUCLEAR PLANT OPERATION AND AIR TEMPERATURES - JANUARY 1985.

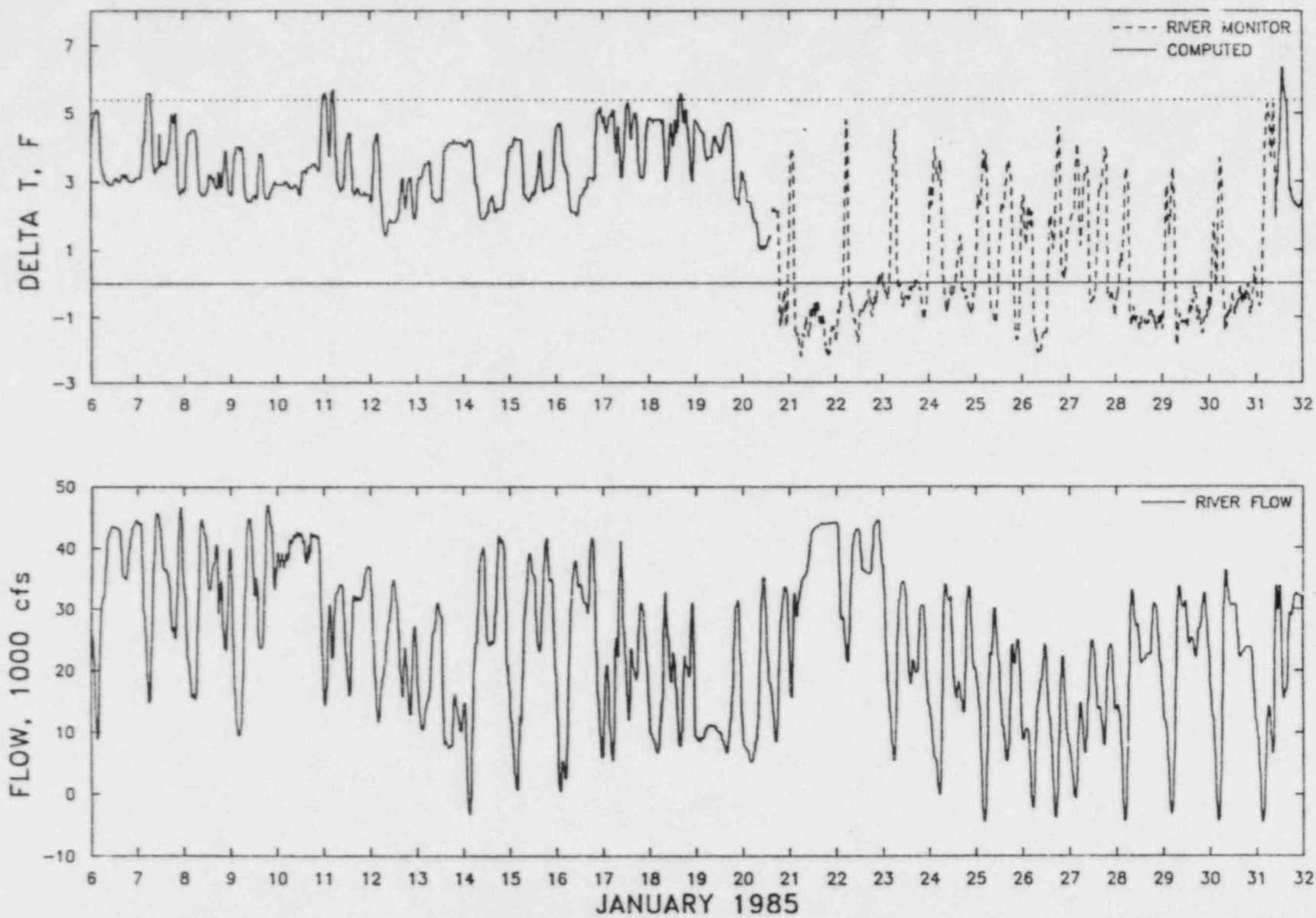


FIGURE 3. SEQUOYAH NUCLEAR PLANT TEMPERATURE RISE AND RIVER FLOW - JANUARY 1985.

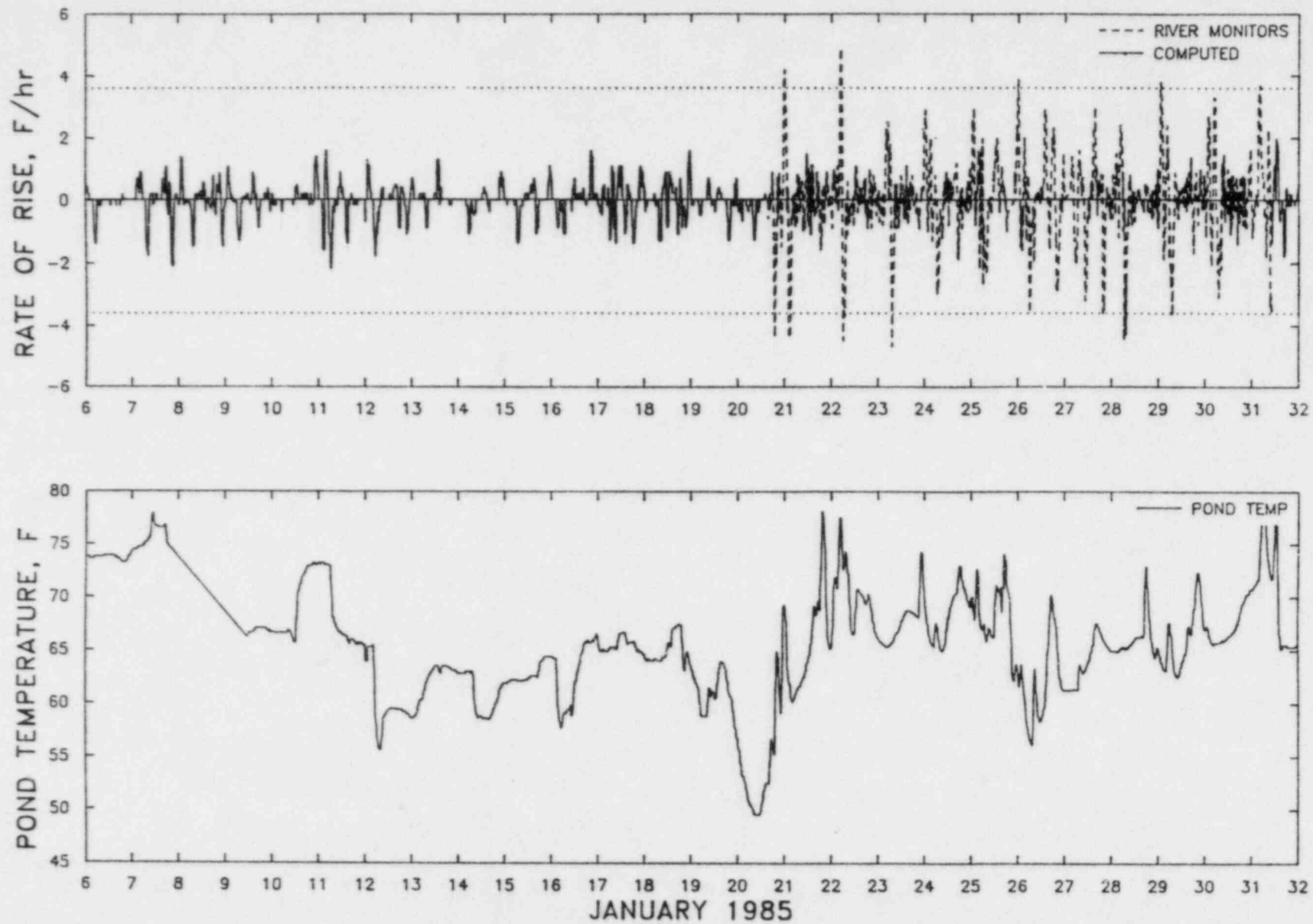


FIGURE 4. SEQUOYAH NUCLEAR PLANT RATE OF TEMPERATURE CHANGE AND DISCHARGE POND TEMPERATURES - JANUARY 1985.



TABLE 1

## MONITORED RATE OF TEMPERATURE CHANGE ABOVE THE THERMAL LIMIT

DATE	STARTING TIME (CST)	MAXIMUM RATE TEMPERATURE CHANGE (°F)	DURATION ABOVE LIMIT (HOURS)
1/20/85	1900	-4.4	.5
1/20/85	2345	4.2	.5
1/21/85	0215	-4.4	1.0
1/22/85	0445	4.9	.5
1/22/85	0615	-4.5	1.0
1/23/85	0730	-4.7	.25
1/25/85	2400	3.9	.25
1/28/85	0645	-4.5	.25
1/28/85	0730	-4.3	.25
1/29/85	0100	3.8	.75
1/29/85	0700	-3.7	.25
1/31/85	0400	3.7	.5
1/31/85	1015	-3.9	.5

B1057C.DS  
02/27/85

NAME TVA - SEQUOYAH NUCLEAR  
 ADDRESS 6411 E. BRAINERD RD.  
CHATTANOOGA TN 37421

TH0026450  
 PERMIT NUMBER

101 1  
 DISCHARGE NUMBER

F - FINAL LIMITS  
 DIFFUSER GATE TO TENN RIVER

FACILITY \_\_\_\_\_  
 LOCATION \_\_\_\_\_

MONITORING PERIOD							
YEAR	MO	DAY	TO	YEAR	MO	DAY	
85	01	01		85	01	31	
(20-21)		(22-23)		(24-25)		(26-27)	
		(28-29)		(30-31)			

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	X	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (46-53)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)	
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS				
CHLORINE, TOTAL RESIDUAL		*****	*****	*****								
50060 1 0		*****	*****	*****	*****	*****	.10	MG/L		WEEK -	CALCTD	
EFFLUENT GROSS VALUE							INST MX			DAYS		
TEMPERATURE RATE OF CHANGE DEG. F/HOUR		0.6	2.3	DEG F/	*****	*****	***'	*	*****	0	31/30	CAL
74029 6 0		*****	3.6	HOUR	*****	*****	*****	*****	*****	SEE	CALCTD	
DOWNSTREAM MONITOR			INST MX							PERMIT		

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		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	FTS AREA CODE	NUMBER	YEAR	MO

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments):  
 CORRESPONDS TO AMBIENT TEMPERATURE, 'Q' TO OPEN MODE, 'S' TO CLOSED MODE. INDICATE WHICH IS APPROPRIATE. \*DID NOT CHLORINATE THIS REPORTING PERIOD.  
 SEE PERMIT FOR FURTHER MONITORING REQUIREMENTS.

NAME TVA - SEQUOYAH NUCLEAR  
 ADDRESS 6411 E. BRAINERD RD.  
CHATTANOOGA TN 37421

TN0026450 PERMIT NUMBER  
 1021 DISCHARGE NUMBER

F - FINAL LIMITS  
 YARD DRAINAGE POND EFFLUENT

FACILITY \_\_\_\_\_  
 LOCATION \_\_\_\_\_

MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	85	01	01		85	01	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

ATTN: JERRY E. LINER

PARAMETER (32-37)	X	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (54-61)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
PH		*****	*****	*****	7.1	*****	8.4		0	24/30	GR
00400 1 0 EFFLUENT GROSS VALUE		*****	*****	*****	6.0 MINIMUM	*****	9.0 MAXIMUM	SU		THREE/ WEEK	GRAB
SOLIDS, TOTAL SUSPENDED		*****	*****	*****	*****	<4.3	7.7		0	23/30	GR
00530 1 0 EFFLUENT GROSS VALUE		*****	*****	*****	*****	30 DAILY AV	100 DAILY MX	MG/L		WEEK- DAYS	GRAB
OIL AND GREASE (SOXHLET EXTR.) TOT.		*****	*****	*****	*****	<5.0	<5.0		0	11/30	GR
00550 1 0 EFFLUENT GROSS VALUE		*****	*****	*****	*****	5 DAILY AV	20 DAILY MX	MG/L		WEEKLY	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT		*****	*	*****	*****	*****	*****	*****			
50050 1 0 EFFLUENT GROSS VALUE		*****	*****	MGD	*****	*****	*****	*****		CONTIN UOUS	RECORD
		SAMPLE MEASUREMENT									
		PERMIT REQUIREMENT									
		SAMPLE MEASUREMENT									
		PERMIT REQUIREMENT									
		SAMPLE MEASUREMENT									
		PERMIT REQUIREMENT									

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER MARTIN E. RIVERS, DIRECTOR OF ENVIRONMENTAL QUALITY STAFF	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)	TELEPHONE		DATE		
		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	FTS AREA CODE	856-6601	85	02

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)  
 PH MEASUREMENT FREQUENCY SHALL NOT BE LESS THAN 1/WEEK AFTER 1 YEAR, UNLESS DETERMINED OTHERWISE.  
 \*FLOWMETER OUT THIS REPORTING PERIOD.

NAME TVA - SEQUOYAH NUCLEAR  
ADDRESS 6411 E. BRAINERD RD.  
CHATTANOOGA TN 37421

TH0026450  
PERMIT NUMBER

1031  
DISCHARGE NUMBER

F - FINAL LIMITS  
LOW VOL WASTE TREAT POND EFFL

FACILITY \_\_\_\_\_  
LOCATION \_\_\_\_\_

MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	85	01	01		85	01	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

ATTN: JERRY E. LINER

PARAMETER (32-37)	X	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (38-45)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
PH		*****	*****	*****	6.9	*****	8.7	0	15/30	GR
00400 1 0 EFFLUENT GROSS VALUE		*****	*****	*****	6.0 MINIMUM	*****	9.0 MAXIMUM	SU	THREE/ WEEK	
SOLIDS, TOTAL SUSPENDED		36	50		*****	9.5	14	0	4/30**	GR
00530 1 0 EFFLUENT GROSS VALUE		380 DAILY AV	1250 DAILY MX	LBS/DY	*****	30 DAILY AV	100 DAILY MX	MG/L	THREE/ WEEK	GRAB
OIL AND GREASE (SOXHLET EXTR.) TOT.		<18	<20		*****	<5.0	<5.0	0	4/30**	GR
00550 1 0 EFFLUENT GROSS VALUE		190 DAILY AV	250 DAILY MX	LBS/DY	*****	15 DAILY AV	20 DAILY MX	MG/L	TWICE/ WEEK	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT		0.51	2.01		*****	*****	*****	*****	0	31/30*
50050 1 0 EFFLUENT GROSS VALUE		***** DAILY AV	***** DAILY MX	MGD	*****	*****	*****	*****	DAILY	TOTALZ

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER MARTIN E. RIVERS, DIRECTOR OF ENVIRONMENTAL QUALITY STAFF TYPED OR PRINTED	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319. Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.	TELEPHONE		DATE	
		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	FTS AREA CODE	856-6601	85

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)  
 IN THE EVENT OF DISCHARGE OF TURBINE BLDG SUMP TO COND COOL WATER CHANNEL OR DRAINAGE POND, TSS, OIL AND GREASE, AND PH SHALL BE MONITORED 5/WEEK. \*DISCHARGE CLOSED TEN DAYS THIS REPORTING PERIOD.  
 \*\*AN ADDITIONAL SAMPLE COLLECTED BY FIELD OPERATIONS WAS NOT ANALYZED.



NAME TVA - SEQUOYAH NUCLEAR  
 ADDRESS 5411 E. BRAINERD RD.  
CHATTANOOGA TN 37421

TN0026450  
 PERMIT NUMBER

104 1  
 DISCHARGE NUMBER

F - FINAL LIMITS  
 RADWSTE SYST TO COOL TWR BLWDN

MONITORING PERIOD					
FROM			TO		
YEAR	MO	DAY	YEAR	MO	DAY
85	01	01	85	01	31
(20-21)		(22-23)	(24-25)	(26-27)	
		(28-29)	(30-31)		

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	X	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (46-53)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
PH 00400 1 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	*****	6.1	*****	7.2	SU	0	9/30	GR
	PERMIT REQUIREMENT	*****	*****	*****	6.0 MINIMUM	*****	9.0 MAXIMUM				TWICE/ WEEK
SOLIDS, TOTAL SUSPENDED 00530 1 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	1.9	7.1	LBS/DY	*****	7.1	18	MG/L	0	9/30	COMP
	PERMIT REQUIREMENT	13 DAILY AV	42 DAILY MX		*****	30 DAILY AV	100 DAILY MX				TWICE/ WEEK
OIL AND GREASE (SOXHLET EXTR.) TOT. 00550 1 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	<1.3	2.3	LBS/DY	*****	<7.8	19	MG/L	0	7/30*	GR
	PERMIT REQUIREMENT	6.3 DAILY AV	8.3 DAILY MX		*****	15 DAILY AV	20 DAILY MX				TWICE/ WEEK
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	0.026	0.049	MGD	*****	*****	*****	*****	0	26/30	REC
	PERMIT REQUIREMENT	***** DAILY AV	***** DAILY MX		*****	*****	*****				ONCE/ BATCH
SAMPLE MEASUREMENT											
PERMIT REQUIREMENT											
SAMPLE MEASUREMENT											
PERMIT REQUIREMENT											
SAMPLE MEASUREMENT											
PERMIT REQUIREMENT											

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER MARTIN E. RIVERS, DIRECTOR OF ENVIRONMENTAL QUALITY STAFF	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)	TELEPHONE		DATE		
		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	FTS AREA CODE	NUMBER	YEAR	MO
TYPED OR PRINTED			856-6601	85	02	28

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):  
 DURING ABNORMAL FLOW CONDITIONS, EXCEEDING .05 MGD AS A 7 DAY AVERAGE, DAILY MAXIMUM QUANTITY LIMITS MAY BE EXCEEDED, BUT SHALL NOT EXCEED 4 TIMES LIMITATIONS LISTED.  
 TSS SAMPLE TYPE = 1 GRAB/BATCH COMPOSITED FOR ANALYSIS OVER A 24 HOUR DAY.  
 \*TWO SAMPLES WERE INADVERTENTLY NOT COLLECTED THIS REPORTING PERIOD.

NAME IVA - SEQUOYAH NUCLEAR  
 ADDRESS 6411 E. BRAINERD RD.  
CHATTANOOGA TN 37421

TN0026450  
 PERMIT NUMBER

105 1  
 DISCHARGE NUMBER

F - FINAL LIMITS  
 REGEN TO COOL TWR BLWDN LINE

FACILITY \_\_\_\_\_  
 LOCATION \_\_\_\_\_

MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	85	01	01		85	01	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

ATTN: JERRY E. LINER

PARAMETER (32-37)	X	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (46-53)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
PH		*****	*****	*****	6.0	*****	9.0		0	68 BATCHES	GR
00400 1 0 EFFLUENT GROSS VALUE		*****	*****	*****	6.0 MINIMUM	*****	9.0 MAXIMUM	SU		ONCE/BATCH	GRAB
SOLIDS, TOTAL SUSPENDED		5.9	17		*****	15	39		0	20 BATCHES	COMP
00530 1 0 EFFLUENT GROSS VALUE		25 DAILY AV	83 DAILY MX	LBS/DY	*****	30 DAILY AV	100 DAILY MX	MG/L		ONCE/BATCH	COMPOS
OIL AND GREASE (SOXHLET EXTR.) TOT.		<2.4	<5.5		*****	<5.0	<5.0		0	20 BATCHES	GR
00550 1 0 EFFLUENT GROSS VALUE		13 DAILY AV	17 DAILY MX	LBS/DY	*****	15 DAILY AV	20 DAILY MX	MG/L		DAILY	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT		0.057	0.132		*****	*****	*****	*****	0	20 BATCHES	GR
50050 1 0 EFFLUENT GROSS VALUE		*****	*****	MGD	*****	*****	*****	*****		ONCE/BATCH	CALCTD

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  
 MARTIN E. RIVERS, DIRECTOR  
 OF ENVIRONMENTAL QUALITY  
 STAFF  
 TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: 856-6601  
 DATE: 85 02 28  
 FTS AREA CODE: 856-6601  
 NUMBER: 856-6601  
 YEAR: 85  
 MO: 02  
 DAY: 28

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

SHOULD ABNORMAL CONDITIONS NECESSITATE INCREASED WASTE FLOW ABOVE 0.10 MGD, AS A 7 DAY AVERAGE, DAILY MAXIMUM QUANTITY LIMITATIONS MAY BE EXCEEDED BUT SHALL NOT EXCEED 2 TIMES THE LIMITATIONS LISTED.

NAME TVA - SEQUOYAH NUCLEAR  
 ADDRESS 5411 E. BRAINERD RD.  
CHATTANOOGA TN 37421

TN0026450 (2-16) 106 1 (17-19)  
 PERMIT NUMBER DISCHARGE NUMBER

F - FINAL LIMITS  
 STM GEN BLWDM TO COOL TWR BLDN

FACILITY \_\_\_\_\_  
 LOCATION \_\_\_\_\_  
 ATTN: JERRY E. LINER

MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	85	01	01		85	01	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	X	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (46-53)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
PH		*****	*****	*****		*****					
00400 1 0 EFFLUENT GROSS VALUE		*****	*****	*****	***** MINIMUM	*****	*****	SU		SEE PERMIT	
SOLIDS, TOTAL SUSPENDED					*****						
00530 1 0 EFFLUENT GROSS VALUE		50 DAILY AV	170 DAILY MX	LBS/DY	*****	30 DAILY AV	100 DAILY MX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT		NO DISCHARGE			*****	*****	*****	*****			
50050 1 0 EFFLUENT GROSS VALUE		***** DAILY AV	***** DAILY MX	MGD	*****	*****	*****	*****		ONCE/ MONTH	INSTAN
SAMPLE MEASUREMENT											
PERMIT REQUIREMENT											
SAMPLE MEASUREMENT											
PERMIT REQUIREMENT											
SAMPLE MEASUREMENT											
PERMIT REQUIREMENT											
SAMPLE MEASUREMENT											
PERMIT REQUIREMENT											

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER MARTIN E. RIVERS, DIRECTOR OF ENVIRONMENTAL QUALITY STAFF TYPED OR PRINTED	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)	TELEPHONE		DATE		
		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	856-6601	85	02	28

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):  
 SHOULD INTERNAL PLANT CHEMISTRY REQUIREMENTS NECESSITATE INCREASED BLOWDOWN FLOW OVER .2 MGD AS A 7 DAY AVERAGE, DAILY MAXIMUM QUANTITY LIMITATIONS MAY BE EXCEEDED BUT SHALL NOT EXCEED 4 TIMES THE LIMITATIONS LISTED.



NAME TVA - SEQUOYAH NUCLEAR  
 ADDRESS 5411 E. BRAINERD RD.  
CHATTANOOGA TN 37421

TN0026450  
 PERMIT NUMBER

107 1  
 DISCHARGE NUMBER

F - FINAL LIMITS  
 METAL CLN WASTE PND TO COND CH

FACILITY \_\_\_\_\_  
 LOCATION \_\_\_\_\_

MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	85	01	01		85	01	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

ATTN: JERRY E. LINER

PARAMETER (32-37)	X	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (46-53)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
CHEM. OXYGEN DEMAND (HIGH LEVEL) (COD) 00340 1 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*	LBS/DAY	*****						
	PERMIT REQUIREMENT	*****	834		*****	*****	100	MG/L		WEEKLY	COMP-8
PH 00400 1 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	*****	8.0		8.8		0	3/30	GR
	PERMIT REQUIREMENT	*****	*****	*****	6.0 MINIMUM	*****	9.0 MAXIMUM	SU		WEEKLY	GRAB
SOLIDS, TOTAL SUSPENDED 00530 1 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	33	42	LBS/DAY	*****	6.0	9.0		0	3/30	8-HR COMP
	PERMIT REQUIREMENT	*****	250		*****	*****	30	MG/L		WEEKLY	COMP-8
OIL AND GREASE (SOXHLET EXTR.) TOT. 00550 1 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	<29	<33	LBS/DAY	*****	<5.0	<5.0		0	3/30	GR
	PERMIT REQUIREMENT	*****	125		*****	*****	15	MG/L		WEEKLY	GRAB
PHOSPHORUS, TOTAL (AS P) 00665 1 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*	LBS/DAY	*****		*				
	PERMIT REQUIREMENT	*****	8.3		*****	*****	1.0	MG/L		WEEKLY	COMP-8
COPPER, TOTAL (AS CU) 01042 1 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	<0.029	<0.033	LBS/DAY	*****	<0.005	<0.005		0	3/30	8-HR COMP
	PERMIT REQUIREMENT	*****	8.3		*****	*****	1.0	MG/L		WEEKLY	COMP-8
IRON, TOTAL (AS FE) 01045 1 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	0.90	1.6	LBS/DAY	*****	0.17	0.35		0	3/30	8-HR COMP
	PERMIT REQUIREMENT	*****	8.3		*****	*****	1.0	MG/L		WEEKLY	COMP-8

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  
 MARTIN E. RIVERS, DIRECTOR  
 OF ENVIRONMENTAL QUALITY  
 STAFF  
 TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319. Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE  
 856-6601  
 DATE  
 85 02 28  
 AREA CODE NUMBER YEAR MO DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)  
 IN NO CASE SHALL THE QUANTITY DISCHARGED EXCEED THE QUANTITY DETERMINED BY MULTIPLYING THE VOLUME OF THE BATCH OF METAL CLEANING WASTE GENERATED BY THE CONCENTRATION. SEE PERMIT FOR ADDITIONAL SAMPLING REQUIREMENTS.  
 \*NO PHOSPHORUS OR ORGANIC CHEMICAL BEARING COMPOUNDS WERE USED.



NAME TVA - SEQUOYAH NUCLEAR  
ADDRESS 6411 E. BRAINERD RD.  
CHATTANOOGA TN 37421

(2-16)

(17-19)

TN0026450

107 1

PERMIT NUMBER

DISCHARGE NUMBER

F - FINAL LIMITS  
METAL CLEANING WASTE PND TO COND CH

FACILITY \_\_\_\_\_  
LOCATION \_\_\_\_\_

MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	85	01	01		85	01	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

ATTN: JERRY E. LINER

PARAMETER (32-37)	X	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (54-61)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	0.70	0.80	MGD	*****	*****	*****	*****	0	3/30	CAL
	PERMIT REQUIREMENT	***** DAILY AV	***** DAILY MX		*****	*****	*****	*****	*****	ONCE/ BATCH	CALCTM
	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 MARTIN E. RIVERS, DIRECTOR OF ENVIRONMENTAL QUALITY STAFF	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)	TELEPHONE		DATE		
		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	FTS AREA CODE	856-6601	85	02

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)  
IN NO CASE SHALL THE QUANTITY DISCHARGED EXCEED THE QUANTITY DETERMINED BY MULTIPLYING THE VOLUME OF THE BATCH OF METAL CLEANING WASTE GENERATED BY THE CONCENTRATION. SEE PERMIT FOR ADDITIONAL SAMPLING REQUIREMENTS.

NAME TVA - SEQUOYAH NUCLEAR  
 ADDRESS 6411 E. BRAINERD RD.  
CHATTANOOGA TN 37421

TN0026450  
 PERMIT NUMBER

108 1  
 DISCHARGE NUMBER

F - FINAL LIMITS  
 CONCRETE PLT SETTLING POND

FACILITY \_\_\_\_\_  
 LOCATION \_\_\_\_\_

MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	85	01	01		85	01	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

ATTN: JERRY E. LINER

PARAMETER (32-37)	SAMPLE MEASUREMENT / PERMIT REQUIREMENT	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (54-61)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
PH	SAMPLE MEASUREMENT	*****	*****	*****		*****					
00400 1 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*****	***** MINIMUM	*****	***** MAXIMUM	SU		SEE PERMIT	
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	*****	*****	*****	*****	<2.7	4.0		0	3/30*	GR
00530 1 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*****	*****	DAILY AV	40 DAILY MX	MG/L		WEEKLY	GRAB
OIL AND GREASE (SOXHLET EXTR.) TOT.	SAMPLE MEASUREMENT	*****	*****	*****	*****		<5.0		0	1/30	GR
00550 1 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*****	*****	DAILY AV	20 DAILY MX	MG/L		ONCE/MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.011	0.046*		*****	*****	*****	*****	0	5/30	WEIR
50050 1 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	MGD	*****	*****	*****	*****		WEEKLY	FLOIND
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  
MARTIN E. RIVERS, DIRECTOR OF ENVIRONMENTAL QUALITY STAFF  
 TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE  
 856-6601  
 DATE  
 85 02 28

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

THERE WAS NO DISCHARGE ONE WEEK THIS REPORTING PERIOD.  
 ONE TSS SAMPLE WAS NOT COLLECTED BECAUSE OF HIGH FLOW DUE TO A BROKEN WATER MAIN.

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

NAME TENNESSEE VALLEY AUTHORITY  
 ADDRESS 6411 EAST BRAINERD ROAD  
CHATTANOOGA, TN 37421

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

(2-16) TN0026450  
 PERMIT NUMBER  
 (17-19) 109  
 DISCHARGE NUMBER

Form Approved  
 OMB No. 2040-0004  
 Expires 2-29-84

EMERGENCY DIESEL GENERATOR  
 NO. 5 COOLING WATER EFFLUENT

FACILITY SEQUOYAH NUCLEAR PLANT  
 LOCATION SODDY, TN 37379

MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
85	01	01	85	01	31
(20-21)	(22-23)	(24-25)	(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	X	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (38-45) (46-53) (54-61)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
FLOW		NO DISCHARGE			MGD						
		SAMPLE MEASUREMENT									
		PERMIT REQUIREMENT								1/14	P LOG
ERCW SYSTEM TOTAL CHLORINE RESIDUAL		SAMPLE MEASUREMENT							MG/L		
		PERMIT REQUIREMENT						0.8		1/14	GR
		SAMPLE MEASUREMENT									
		PERMIT REQUIREMENT									
		SAMPLE MEASUREMENT									
		PERMIT REQUIREMENT									
		SAMPLE MEASUREMENT									
		PERMIT REQUIREMENT									
		SAMPLE MEASUREMENT									
		PERMIT REQUIREMENT									

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER MARTIN E. RIVERS, DIRECTOR OF ENVIRONMENTAL QUALITY STAFF TYPED OR PRINTED	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 USC § 1001 AND 33 USC § 1319. Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.	TELEPHONE		DATE		
		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	FTS AREA CODE	NUMBER	YEAR	MO
		856-6601	84	02	28	

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

MONITORING REQUIRED ONLY DURING TESTING PERIODS. ALSO, LIMITATIONS AND MONITORING ARE NOT APPLICABLE DURING AN ACTUAL EMERGENCY SITUATION.

NAME TVA - SEQUOYAH NUCLEAR  
 ADDRESS 6411 E. BRAINERD RD.  
CHATTANOOGA TN 37421

TN0026450  
 PERMIT NUMBER

110 1  
 DISCHARGE NUMBER

F - FINAL LIMITS  
 RECYCLED COOLING WATER FLOW

FACILITY \_\_\_\_\_  
 LOCATION \_\_\_\_\_

MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	85	01	01		85	01	31
	(20-27)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

ATTN: JERRY E. LINER

PARAMETER (32-37)	X	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (46-53)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
TEMPERATURE, WATER DEG. FAHRENHEIT 00011 1 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	*****	50.0	64.4	86.0		0	11/30	GR
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	101.0	DEG.F		DAILY	GRAB10
						DAILY AV	DAILY MX				
PH 00400 1 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	*****	7.8	*****	7.9		0	2/30	GR
	PERMIT REQUIREMENT	*****	*****	*****	6.0	*****	9.0	SU		WEEKLY	GRAB
					MINIMUM		MAXIMUM				
CHLORINE, TOTAL RESIDUAL 50060 1 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	*****			*				
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	0.10	MG/L		WEEKLY	GRAB10
						DAILY AV	DAILY MX				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  
 MARTIN E. RIVERS, DIRECTOR  
 OF ENVIRONMENTAL QUALITY  
 STAFF  
 TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

TELEPHONE \_\_\_\_\_ DATE \_\_\_\_\_  
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT \_\_\_\_\_  
 FTS AREA CODE 856-6601 85 02 28  
 NUMBER YEAR MO DAY

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

ADDITIONAL MONITORING FROM TN DEPT OF PUBLIC HEALTH CERTIFICATION LETTER OF JAN 31, 1983.  
 SEE LETTER FOR REQUIREMENTS TO ESTABLISH RELATIONSHIP BETWEEN FISH DISTRESS/KILL AND CHLORINATION LEVEL.  
 \*DID NOT CHLORINATE THIS REPORTING PERIOD. DISCHARGED TWO WEEKS THIS REPORTING PERIOD.



NAME TVA - SEQUOYAH NUCLEAR  
 ADDRESS 6411 E. BRAINERD RD.  
CHATTANOOGA TN 37421

TN0026450  
 PERMIT NUMBER

111 1  
 DISCHARGE NUMBER

F - FINAL LIMITS  
 STP DISCHARGE

FACILITY \_\_\_\_\_  
 LOCATION \_\_\_\_\_

MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	85	01	01		85	01	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

ATTN: JERRY E. LINER

PARAMETER (32-37)	SAMPLE MEASUREMENT	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (46-53)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)	
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS				
BOD, 5-DAY (20 DEG. C) 00310 1 0	SAMPLE MEASUREMENT	0.29	0.53		*****	18	32	MG/L	0	2/30	GR	
EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	3.8	9.3	LBS/DY	*****	30	45			TWICE/MONTH	GRAB	
PH	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	*****					
EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	*****	SU		SEE PERMIT		
SOLIDS, TOTAL SUSPENDED 00530 1 0	SAMPLE MEASUREMENT	0.41	0.55		*****	33	33		1	2/30	GR	
EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	6.3	5.6	LBS/DY	*****	30	45	MG/L		TWICE/MONTH	GRAB	
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0	SAMPLE MEASUREMENT	0.003	0.017		*****	*****	*****	*****		0	15/30	WEIR
EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	0.015	*****	MGD	*****	*****	*****	*****		WEEK-DAYS	FLOIND	
CHLORINE, TOTAL RESIDUAL 50060 1 0	SAMPLE MEASUREMENT	*****	*****	*****	0.0	1.1	1.8		0	16/30	GR	
EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	2.0	MG/L		WEEK-DAYS	GRAB	
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER MARTIN E. RIVERS, DIRECTOR OF ENVIRONMENTAL QUALITY STAFF TYPED OR PRINTED	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 USC § 1001 AND 33 USC § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)	TELEPHONE		DATE		
		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	FTS AREA CODE	856-6601	85	02

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

NAME TVA - SEQUOYAH NUCLEAR  
 ADDRESS 6411 E. BRAINERD RD.  
CHATTANOOGA TN 37421

TN0026450  
 PERMIT NUMBER

112 1  
 DISCHARGE NUMBER

F - FINAL LIMITS  
 STP DISCHARGE

FACILITY \_\_\_\_\_  
 LOCATION \_\_\_\_\_

MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	85	01	01		85	01	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

ATTN: JERRY E. LIVER

PARAMETER (32-37)	SAMPLE MEASUREMENT / PERMIT REQUIREMENT	(3 Card Only) QUANTITY OR LOADING (46-53) (54-61)			(4 Card Only) QUALITY OR CONCENTRATION (38-45) (46-53) (54-61)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
FLOW	SAMPLE MEASUREMENT	0.010	0.061	MGD					0	22/30	GR
	PERMIT REQUIREMENT	0.025	NA								
BOD <sub>5</sub>	SAMPLE MEASUREMENT		*	LBS/DAY	14	32	49	MG/L	2	2/30	GR
	PERMIT REQUIREMENT	6.3	8.3			30	40			2/30	GR
SUSPENDED SOLIDS	SAMPLE MEASUREMENT		*	LBS/DAY	5.0	11	17	MG/L	0	2/30	GR
	PERMIT REQUIREMENT	6.3	8.3			30	40			2/30	GR
TOTAL CHLORINE RESIDUAL	SAMPLE MEASUREMENT				0.8	1.2	2.0	MG/L	0	11/30	GR
	PERMIT REQUIREMENT						2.0			5/7	GR
FECAL COLIFORM	SAMPLE MEASUREMENT				<10	<10	<10	N/100 ML	0	2/30	GR
	PERMIT REQUIREMENT				NA	NA	1000			2/30	GR
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  
 MARTIN E. RIVERS, DIRECTOR  
 OF ENVIRONMENTAL QUALITY  
 STAFF  
 TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319. Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: 856-6601  
 DATE: 85 02 28  
 AREA CODE: 856  
 NUMBER: 6601  
 YEAR: 85  
 MO: 02  
 DAY: 28

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

\*THERE WAS NO FLOW ON THE DAYS OF SAMPLE COLLECTION; THEREFORE, NO POUNDAGE COULD BE CALCULATED. THERE WAS NO FLOW ELEVEN DAYS THIS REPORTING PERIOD. A NOTIFICATION OF NONCOMPLIANCE IS ATTACHED.

NOTIFICATION OF NONCOMPLIANCE WITH EFFLUENT LIMITATIONS - NPDES PERMIT  
NO. TN0026450 - SEQUOYAH NUCLEAR PLANT

Description of the discharge--Discharge No. 112 - Sewage treatment plant effluent. A grab sample collected on January 16 had a BOD<sub>5</sub> value of 49 mg/L, exceeding the permit limit of 45 mg/L.

Cause and period of the noncompliance--The exact cause of the noncompliance is not known. We suspect there was a problem with the sand filter effluent pumps. These pumps are checked daily to verify proper operation. We suspect the pump tripped after the routine daily check on the day preceding the date of the noncompliance. Other samples collected were as follows.

<u>Date</u>	<u>Sample Parameter</u>	<u>Value</u>
1/03	BOD <sub>5</sub>	14 mg/L
	TRC	1.2 mg/L
	TSS	5 mg/L
	Fecal Coliform	less than 10 N/100 ml
1/16	TSS	17 mg/L
	Fecal Coliform	less than 10 N/100 ml
	TRC	0.5 mg/L
2/14	BOD <sub>5</sub>	17 mg/L
	Fecal Coliform	60 N/100 ml
	TSS	6 mg/L

Thus, the maximum period of noncompliance was 43 days.

Steps taken to reduce, eliminate, and prevent recurrence of the noncomplying discharge--The operation of the sand filter effluent pumps is being investigated to determine why the pumps tripped. Once the reason is determined, it will be fixed to eliminate this problem.

NAME TVA - SEQUOYAH NUCLEAR  
 ADDRESS 6411 E. BRAINERD RD.  
CHATTANOOGA TN 37421

PERMIT NUMBER TN0026450 DISCHARGE NUMBER 113 1

F - FINAL LIMITS  
 STP TO COND COOLING WATER CHAN

MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	85	01	01		85	01	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

FACILITY \_\_\_\_\_  
 LOCATION \_\_\_\_\_  
 ATTN: JERPY E. LINER

PARAMETER (32-37)	SAMPLE MEASUREMENT	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (54-61)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
BOD, 5-DAY (20 DEG. C) 00310 1 0 EFFLUENT GROSS VALUE	0.11	0.15	LBS/DY	*****	13	18	MG/L	0	2/30	GR	
PERMIT REQUIREMENT	7.5	11.3	LBS/DY	*****	30	45	MG/L		TWICE/MONTH	GRAB	
PH	*****	*****	*****	*****	*****	*****					
PERMIT REQUIREMENT	*****	*****	*****	*****	*****	*****	SU		SEE PERMIT		
SOLIDS, TOTAL SUSPENDED 00530 1 0 EFFLUENT GROSS VALUE	0.41	0.43	LBS/DY	*****	49	51	MG/L	3	2/30	GR	
PERMIT REQUIREMENT	7.5	11.3	LBS/DY	*****	30	45	MG/L		TWICE/MONTH	GRAB	
SOLIDS, SETTLEABLE 00545 1 0 EFFLUENT GROSS VALUE	*****	*****	*****	*****	<0.1	<0.1	ML/L	0	17/30	GR	
PERMIT REQUIREMENT	*****	*****	*****	*****	*****	1.0	ML/L		WEEK-DAYS	GRAB	
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 EFFLUENT GROSS VALUE	0.0006	0.0037	MGD	*****	*****	*****	*****	0	22/30	WEIR	
PERMIT REQUIREMENT	0.030	*****	MGD	*****	*****	*****	*****		WEEK-DAYS	FLOIND	
CHLORINE, TOTAL RESIDUAL 50060 1 0 EFFLUENT GROSS VALUE	*****	*****	*****	0.5	1.0	2.0	MG/L	0	17/30	GR	
PERMIT REQUIREMENT	*****	*****	*****	*****	*****	2.0	MG/L		WEEK-DAYS	GRAB	
SAMPLE MEASUREMENT											
PERMIT REQUIREMENT											

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER MARTIN E. RIVERS, DIRECTOR OF ENVIRONMENTAL QUALITY STAFF TYPED OR PRINTED	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)	TELEPHONE	DATE		
		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	856-6601	85	02

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)  
 THERE WAS NO FLOW SEVEN DAYS THIS REPORTING PERIOD.  
 A NOTIFICATION OF NONCOMPLIANCE IS ATTACHED.



NOTIFICATION OF NONCOMPLIANCE WITH EFFLUENT LIMITATIONS - NPDES PERMIT  
NO. TN0026450 - SEQUOYAH NUCLEAR PLANT

Description of the discharge--Discharge No. 113 - Sewage treatment plant effluent. The following grab samples had total residual chlorine (TRC) and total suspended solids (TSS) concentrations in excess of the NPDES permit limitations of 2.0 and 45 mg/L, respectively.

<u>Date</u>	<u>Parameter</u>	<u>Concentration (mg/L)</u>
12/20/84	TSS	79
12/31/84	TRC	4.0
01/03/85	TSS	51
01/16/85	TSS	47

Cause and period of the noncompliance--The TRC noncompliance occurred when the flow of sewage to the plant decreased to zero and the chlorinator pump continued to operate. The cause of the TSS noncompliances is not known. Grab samples collected on December 28 at 1400 and on January 2 at 1130 had TRC concentrations of 0.4 and 0.9 mg/L, respectively. In addition, grab samples collected on December 6 and February 14 had TSS concentrations of 29 and 12 mg/L, respectively. Therefore, the maximum periods of noncompliance for the TRC and TSS noncompliances were approximately 5 days and 71 days, respectively.

Steps taken to reduce, eliminate, and prevent recurrence of the noncomplying discharge--Flow to the plant resumed, and the chlorinator pump was adjusted to an appropriate setting.

NAME TVA - SEQUOYAH NUCLEAR  
 ADDRESS 6411 E. BRAINERD RD.  
CHATTANOOGA TN 37421

TN0026450  
 PERMIT NUMBER

114 1  
 DISCHARGE NUMBER

F - FINAL LIMITS  
 STP DISCHARGE TO TENN RIVER

FACILITY \_\_\_\_\_  
 LOCATION \_\_\_\_\_

MONITORING PERIOD					
FROM			TO		
YEAR	MO	DAY	YEAR	MO	DAY
85	01	01	85	01	31
(20-21)	(22-23)	(24-25)	(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

ATTN: JERRY E. LINER

PARAMETER (32-37)	X	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (38-45)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
000310 1 0 EFFLUENT GROSS VALUE PH		0.41	0.78	LBS/DY	*****	3.1	5.2	0	2/30	GR
		3.8 30DA AVG	5.6 DAILY MX		*****	30 30DA AVG	45 DAILY MX		TWICE/GRAB MONTH	
00400 1 0 EFFLUENT GROSS VALUE SOLIDS, TOTAL SUSPENDED		*****	*****	*****	6.5	*****	7.0	0	13/30	GR
		*****	*****	*****	6.0 MINIMUM	*****	9.0 MAXIMUM		TWICE/GRAB WEEK	
00530 1 0 EFFLUENT GROSS VALUE SOLIDS, SETTLEABLE		0.83	1.5	LBS/DY	*****	8.0	10	0	2/30	GR
		3.8 30DA AVG	5.6 DAILY MX		*****	30 30DA AVG	45 DAILY MX		TWICE/GRAB MONTH	
00545 1 0 EFFLUENT GROSS VALUE FLOW, IN CONDUIT OR THRU TREATMENT PLANT		*****	*****	*****	*****	<0.1	<0.1	0	22/30	GR
		*****	*****	*****	*****	30DA AVG	1.0 DAILY MX		TWICE/GRAB WEEK	
80050 1 0 EFFLUENT GROSS VALUE COLIFORM, FECAL GENERAL		0.013	0.018	MGD	*****	*****	*****	0	22/30	WEIR
		.010 DAILY AV	***** DAILY MX		*****	*****	*****		WEEK - FLOIND DAYS	
74055 1 0 EFFLUENT GROSS VALUE		*****	*****	*****	*****	1005	>2000	1	2/30	GR
		*****	*****	*****	*****	30DA GEO	1000 DAILY MX		TWICE/GRAB MONTH	

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  
 MARTIN E. RIVERS, DIRECTOR  
 OF ENVIRONMENTAL QUALITY  
 STAFF  
 TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE  
 856-6601  
 AREA CODE NUMBER

DATE  
 85 02 28  
 YEAR MO DAY

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

A NOTIFICATION OF NONCOMPLIANCE IS ATTACHED.

NOTIFICATION OF NONCOMPLIANCE WITH EFFLUENT LIMITATIONS - NPDES PERMIT  
NO. TN0026450 - SEQUOYAH NUCLEAR PLANT

Description of the discharge--Discharge No. 114 - Sewage treatment plant effluent. A grab sample collected on January 3 contained a fecal coliform count of greater than 1000 N/100 ml, exceeding the maximum permit limitation of 1000 N/100 ml. This noncomplying discharge was only for the flow from the 0.010 MGD plant.

Cause and period of the noncompliance--This noncompliance resulted from a hydraulic overload. The design flow is 10,000 gpd. However, on the date the sample was taken, the flow was 18,000 gpd. Chlorine was being added to the effluent at the time of collection, but due to the higher flow and solids carryover, inadequate disinfection occurred. Grab samples collected on December 20, 1984, and January 16, 1985, both had fecal coliform counts of less than 10 N/100 ml. Thus, the maximum period of noncompliance was 26 days.

Steps taken to reduce, eliminate, and prevent recurrence of the noncomplying discharge--Plans are being made to dismantle this plant and route the sewage flow to DSN 113.

FEB 25 1985

NAME TVA - SEQUOYAH NUCLEAR  
 ADDRESS 6411 E. BRAINERD RD.  
CHATTANOOGA TN 37421

TNG026450  
 PERMIT NUMBER

114 2  
 DISCHARGE NUMBER

F - FINAL LIMITS  
 STP DISCHARGE TO TENN RIVER

FACILITY \_\_\_\_\_  
 LOCATION \_\_\_\_\_

MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	85	01	01		85	01	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

ATTN: JERRY E. LINER

PARAMETER (32-37)	SAMPLE MEASUREMENT	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (54-61)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
00310 1 0 EFFLUENT GROSS VALUE PH	PERMIT REQUIREMENT	3.8 30DA AVG	5.6 DAILY MX	LBS/DY	*****	30 30DA AVG	45 DAILY MX	MG/L	TWICE/GRAB MONTH	
00400 1 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*****	6.0 MINIMUM	*****	9.0 MAXIMUM	GU	TWICE/GRAB WEEK	
00530 1 0 EFFLUENT GROSS VALUE SOLIDS, SETTLEABLE	PERMIT REQUIREMENT	3.8 30DA AVG	5.6 DAILY MX	LBS/DY	*****	30 30DA AVG	45 DAILY MX	MG/L	TWICE/GRAB MONTH	
00545 1 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*****	*****	30DA AVG	1.0 DAILY MX	ML/L	TWICE/GRAB WEEK	
50050 1 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	.005 DAILY AV	***** DAILY MX	MGD	*****	*****	*****	*****	WEEK- FLOIND DAYS	
74055 1 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*****	*****	30DA GEO	1000 DAILY MX	100ML	TWICE/GRAB MONTH	
DISSOLVED OXYGEN	SAMPLE MEASUREMENT				4.0	6.1	7.5	MG/L	0 22/30	GR
	PERMIT REQUIREMENT				1.0				5.7	GR

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  
 MARTIN E. RIVERS, DIRECTOR  
 OF ENVIRONMENTAL QUALITY  
 STAFF  
 TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE	DATE		
	FTS AREA CODE	NUMBER	YEAR	MO
	856-6601	85	02	28

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



NAME TVA - SEQUOYAH NUCLEAR  
 ADDRESS 6411 E. BRAINERD RD.  
CHATTANOOGA TN 37421

TN0026450  
 PERMIT NUMBER

115 1  
 DISCHARGE NUMBER

F - FINAL LIMITS  
 VEHICLE WASH POND EFFLUENT

FACILITY \_\_\_\_\_  
 LOCATION \_\_\_\_\_

MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	85	01	01		85	01	31
	(20-21) (22-23) (24-25)				(26-27) (28-29) (30-31)		

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	X	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (38-45) (46-53) (54-61)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
PH		*****	*****	*****	7.1	*****	7.1		0	1/30	GR
00400 1 0 EFFLUENT GROSS VALUE		*****	*****	*****	6.0 MINIMUM	*****	9.0 MAXIMUM	SU		ONCE/ MONTH	GRAB
SOLIDS, TOTAL SUSPENDED		*****	*****	*****	*****	8.3	15		0	4/30	GR
00530 1 0 EFFLUENT GROSS VALUE		*****	*****	*****	*****	30 DAILY AV	40 DAILY MX	MG/L		WEEKLY	GRAB
SOLIDS, SETTLEABLE		*****	*****	*****	*****	<0.1	<0.1		0	4/30	GR
00545 1 0 EFFLUENT GROSS VALUE		*****	*****	*****	*****	*****	.5 DAILY MX	ML/L		WEEKLY	GRAB
OIL AND GREASE (SOXHLET EXTR.) TOT.		*****	*****	*****	*****	<5.0	<5.0		0	4/30	GR
00550 1 0 EFFLUENT GROSS VALUE		*****	*****	*****	*****	15 DAILY AV	20 DAILY MX	MG/L		WEEKLY	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT		0.004*	0.006*	*****	*****	*****	*****	*****	0	5/30	WEIR
50050 1 0 EFFLUENT GROSS VALUE		*****	*****	MGD	*****	*****	*****	*****		WEEKLY	FLOIND

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  MARTIN E. RIVERS, DIRECTOR OF ENVIRONMENTAL QUALITY STAFF  TYPED OR PRINTED	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)	TELEPHONE		DATE		
		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	ETS AREA CODE	856-6601	85	02

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)  
 \*ESTIMATED FLOW.  
 THERE WAS NO FLOW ONE WEEK THIS REPORTING PERIOD.

SEQUOYAH NUCLEAR PLANT - TN0026450  
 WATER TEMPERATURE DATA FOR DISCHARGE SERIAL NUMBER 101  
 DIFFUSER GATE TO TENNESSEE RIVER

Date	Maximum Downstream Temperature (°F)	Maximum River $\Delta T$ (°F)	Maximum Ambient Temperature (°F)
11/01/84	74.1	3.6	70.1
11/02/84	73.5	3.6	69.9
11/03/84	72.1	3.5	68.7
11/04/84	71.9	3.5	68.1
11/05/84	70.8	3.8	67.2
11/06/84	69.9	3.6	66.5
11/07/84	68.0	3.7	65.1
11/08/84	68.1	3.3	64.5
11/09/84	66.2	2.4	63.8
11/10/84	67.1	3.6	63.5
11/11/84	66.9	*	62.9
11/12/84	64.4	3.8	61.5
11/13/84	62.6	3.8	59.5
11/14/84	62.4	4.1	59.0
11/15/84	62.6	4.2	58.8
11/16/84	62.7	4.1	58.6
11/17/84	61.8	4.2	58.1
11/18/84	62.0	3.9	57.7
11/19/84	61.7	3.9	57.5
11/20/84	60.0	3.7	56.6
11/21/84	58.2	3.6	54.6
11/22/84	58.2	4.0	53.9
11/23/84	57.7	4.1	53.6
11/24/84	57.5	4.0	53.0
11/25/84	57.0	4.1	53.6
11/26/84	56.3	3.9	53.2
11/27/84	57.0	4.2	53.4
11/28/84	56.4	2.7	53.4
11/29/84	57.0	4.2	53.0
11/30/84	56.4	3.7	52.3

\*Computer malfunction.

SEQUOYAH NUCLEAR PLANT - TN0026450  
WATER TEMPERATURE DATA FOR DISCHARGE SERIAL NUMBER 101  
DIFFUSER GATE TO TENNESSEE RIVER

<u>Date</u>	<u>Maximum Downstream Temperature (°F)</u>	<u>Maximum River <math>\Delta T</math> (°F)</u>	<u>Maximum Ambient Temperature (°F)</u>
12/01/84	55.9	3.9	51.9
12/02/84	55.9	2.8	51.9
12/03/84	56.1	4.8	51.8
12/04/84	54.6	3.4	51.2
12/05/84	54.6	3.8	50.3
12/06/84	54.3	4.1	49.6
12/07/84	50.5	3.6	48.2
12/08/84	51.8	4.2	47.6
12/09/84	51.6	4.1	47.6
12/10/84	51.8	4.1	47.8
12/11/84	50.9	3.4	48.2
12/12/84	50.7	2.6	48.5
12/13/84	51.2	3.3	48.9
12/14/84	52.3	3.5	50.0
12/15/84	53.0	3.6	50.5
12/16/84	*	3.6	*
12/17/84	54.3	3.5	50.3
12/18/84	54.5	3.5	50.7
12/19/84	54.5	3.6	50.7
12/20/84	55.4	3.6	54.3
12/21/84	56.3	3.7	52.5
12/22/84	56.1	3.6	51.9
12/23/84	56.1	3.8	51.9
12/24/84	56.4	3.7	51.4
12/25/84	55.5	3.6	52.5
12/26/84	54.6	4.4	50.9
12/27/84	55.2	4.6	50.7
12/28/84	54.3	4.6	50.5
12/29/84	55.4	4.8	51.0
12/30/84	56.1	4.6	51.6
12/31/84	52.1	4.3	52.1

\*Computer malfunction.

SEQUOYAH NUCLEAR PLANT - TN0026450  
 WATER TEMPERATURE DATA FOR DISCHARGE SERIAL NUMBER 101  
 DIFFUSER GATE TO TENNESSEE RIVER

Date	Maximum Downstream Temperature (°F)	Maximum River $\Delta T$ (°F)	Maximum Ambient Temperature (°F)
01/01/85	57.7	4.3	53.0
01/02/85	58.2	4.4	52.8
01/03/85	57.2	4.6	55.4
01/04/85	54.8	4.6	53.9
01/05/85	54.3	4.8	50.0
01/06/85	54.3	5.1	49.2
01/07/85	54.1	5.6	48.5
01/08/85	53.0	4.5	48.3
01/09/85	49.4	4.0	47.8
01/10/85	51.9	5.3	47.8
01/11/85	50.9	5.7	46.7
01/12/85	50.5	4.4	46.5
01/13/85	50.3	4.2	46.0
01/14/85	50.9	4.2	45.3
01/15/85	49.1	4.4	44.9
01/16/85	48.3	4.9	44.0
01/17/85	47.8	5.3	43.7
01/18/85	*	5.6	*
01/19/85	48.0	4.7	43.7
01/20/85	46.4	4.1	42.9
01/21/85	44.2	4.0	40.4
01/22/85	44.6	5.2	39.9
01/23/85	43.3	5.0	39.7
01/24/85	43.7	*	40.8
01/25/85	45.5	5.0	41.0
01/26/85	45.5	5.0	41.0
01/27/85	44.0	5.1	40.2
01/28/85	42.6	4.2	39.3
01/29/85	42.4	4.1	39.7
01/30/85	43.1	4.3	39.7
01/31/85	45.5	6.2	41.3

\*Computer malfunction.