



Tennessee Valley Authority, Post Office Box 2000, Spring City, Tennessee 37381-2000

March 5, 1996

Tennessee Department of Environment & Conservation  
Division of Water Pollution Control  
Compliance Review Section  
Sixth Floor, L & C Annex  
401 Church Street  
Nashville, Tennessee 37243-1535

Dear Sir:

WATTS BAR NUCLEAR PLANT (WBN) - NATIONAL POLLUTANT DISCHARGE  
ELIMINATION SYSTEM (NPDES) PERMIT NUMBER TN0020168 - DISCHARGE  
MONITORING REPORT FOR JANUARY 1996

Enclosed is the Discharge Monitoring Report and the Ground Water Monitoring Report for  
the month of January 1996. If you should have any questions or need additional  
information, please contact me at (423) 365-8116 at Watts Bar.

*I certify under penalty of law that this document and all attachments were prepared under the  
direction or supervision in accordance with a system designed to assure that qualified personnel  
properly gather and evaluate the information submitted. Based on my inquiry of the person or persons  
who manage the system, or those persons directly responsible for gathering the information, the  
information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am  
aware that there are significant penalties for submitting false information, including the possibility of  
fine and imprisonment for knowing violations.*

Sincerely,

V. J. Shanks  
Radwaste/Environmental Superintendent

Enclosures

cc: Mr. Philip L. Stewart, Manager  
Division of Water Pollution Control  
Chattanooga Field Office  
Suite 550  
540 McCallie Avenue  
Chattanooga, Tennessee 37402

Mr. P. S. Tam, Senior Project Manager  
U. S. Nuclear Regulatory Commission  
One White Flint North  
11555 Rockville Pike  
Rockville, Maryland 20852

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

9603120216 960131  
PDR ADOCK OS000390  
R PDR

JE23

Name **TVA-WATTS BAR NUCLEAR PLANT**  
 Address **P.O. BOX 2000**  
 (INTEROFFICE MOB 2U)  
 SPRING CITY, TN 37381  
 Facility **TVA-WATTS BAR NUCLEAR PLANT**  
 Location **RHEA COUNTY**

TN0020168  
 PERMIT NUMBER

101 G  
 DISCHARGE NO.

Diffuser Discharge

OMB No. 2030-0004

Approval Expires 10-31-94

(WBN-TVA MS Access Electronic version)

ATTN: VERNON J. SHANKS, ENV. MGR.

MONITORING PERIOD  
 From: **96 01 01** To: **96 01 31**

PARAMETER	X	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
TEMPERATURE, WATER DEG. CENTIGRADE	SAMPLE MEASUREMENT	*****	*****	**	*****	*****	13	04	0	31 / 31	RCORDR
00010 1 0 0	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	35 DAILY MX	DEG. C		CONTINUOUS	RCORDR
PH	SAMPLE MEASUREMENT	*****	*****	**	7.9	*****	8.0	12	0	6 / 31	GRAB
00400 1 0 0	PERMIT REQUIREMENT	*****	*****	*****	6.0 DAILY MN	*****	9.0 DAILY MX	SU		1/7	GRAB
EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	**	*****	3	5	19	0	5 / 31	GRAB
00530 1 0 0	PERMIT REQUIREMENT	*****	*****	*****	*****	30 MO AVG	100 DAILY MX	MG/L		1/7	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	*****	*****	**	*****	<5	<5	19	0	5 / 31	GRAB
00556 1 0 0	PERMIT REQUIREMENT	*****	*****	*****	*****	15 MO AVG	20 DAILY MX	MG/L		1/7	GRAB
OIL & GREASE FREON EXTR-GRAV METH	SAMPLE MEASUREMENT	*****	*****	**	*****	*****	*****	**	0	31 / 31	RCORDR
00050 1 0 0	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MX	MGD	*****	*****	*****	*****		CONTINUOUS	RCORDR
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	*****	*****	**	*****	*****	Conditional / NR this MP	19	0	0 / 31	M-GRAB
50060 1 0 0	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	0.10 DAILY MX	MG/L		5/7	M-GRAB
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT										
EFFLUENT GROSS VALUE	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	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 FINES 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		
JOHN A. SCALICE		615	365-8116	96	02	27
SITE VICE PRESIDENT		AREA CODE	NUMBER	YEAR	MO	DAY
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT				

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)  
 TEMPERATURE MEASUREMENTS FROM 1-5 THRU 1-28 ARE BY GRAB SAMPLE DUE TO EQUIPMENT FAILURE.

Name **TVA-WATTS BAR NUCLEAR PLANT**  
 Address **P.O. BOX 2000**  
 (INTEROFFICE MOB 2U)  
**SPRING CITY, TN 37381**  
 Facility **TVA-WATTS BAR NUCLEAR PLANT**  
 Location **RHEA COUNTY**

TN0020168  
 PERMIT NUMBER

102 G  
 DISCHARGE NO.

Yard Holding Pond  
 Emergency Overflow  
 Weir

ATTN: VERNON J. SHANKS, ENV. MGR.

MONITORING PERIOD  
 From: **96 01 01** To: **96 01 31**

PARAMETER	SAMPLE MEASUREMENT / PERMIT REQUIREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
TEMPERATURE, WATER DEG. CENTIGRADE	SAMPLE MEASUREMENT	*****	*****	**	*****	*****	No Discharge	04	0	0 / 31	INSTAN
00010 1 0 0	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	40 DAILY MX	DEG. C		1/1	INSTAN
EFFLUENT GROSS VALUE											
PH	SAMPLE MEASUREMENT	*****	*****	**	No Discharge	*****	No Discharge	12	0	0 / 31	GRAB
00400 1 0 0	PERMIT REQUIREMENT	*****	*****	*****	6.0 MINIMUM	*****	9.0 MAXIMUM	SU		1/7	GRAB
EFFLUENT GROSS VALUE											
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	*****	*****	**	*****	No Discharge	No Discharge	19	0	0 / 31	GRAB
00530 1 0 0	PERMIT REQUIREMENT	*****	*****	*****	*****	30 MO AVG	100 DAILY MX	MG/L		1/7	GRAB
EFFLUENT GROSS VALUE											
OIL & GREASE FREON EXTR-GRAV METH	SAMPLE MEASUREMENT	*****	*****	**	*****	No Discharge	No Discharge	19	0	0 / 31	GRAB
00556 1 0 0	PERMIT REQUIREMENT	*****	*****	*****	*****	15 MO AVG	20 DAILY MX	MG/L		1/7	GRAB
EFFLUENT GROSS VALUE											
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	No Discharge	No Discharge	03	*****	*****	*****	**	0	0 / 31	GRAB
50050 1 0 0	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MX	MGD	*****	*****	*****	*****		1/1	GRAB
EFFLUENT GROSS VALUE											
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT	*****	*****	**	*****	*****	No Discharge	19	0	0 / 31	M-GRAB
50060 1 0 0	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	0.10 DAILY MX	MG/L		5/7	M-GRAB
EFFLUENT GROSS VALUE											
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	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 FINES 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			
JOHN A. SCALICE		615	365-8116	96	02	27	
SITE VICE PRESIDENT		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		AREA CODE	NUMBER	YEAR	MO
TYPED OR PRINTED							

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

Name **TVA-WATTS BAR NUCLEAR PLANT**  
 Address **P.O. BOX 2000**  
 (INTEROFFICE MOB 2U)  
**SPRING CITY, TN 37381**  
 Facility **TVA-WATTS BAR NUCLEAR PLANT**  
 Location **RHEA COUNTY**

TN0020168  
 PERMIT NUMBER

103 G Low Vol. Waste  
 DISCHARGE NO. Treatment Pond

ATTN: VERNON J. SHANKS, ENV. MGR.

MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
From: 96	01	01	To: 96	01	31

PARAMETER	X	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
PH	SAMPLE MEASUREMENT	*****	*****	**	7.8	*****	8.5	12	0	10 / 31	GRAB
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*****	6.0 DAILY MN	*****	9.0 DAILY MX	SU		3/7	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	92	97	26	*****	9	9	19	0	3 / 31	GRAB
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	250 MO AVG	834 DAILY MAX	LBS/DAY	*****	30 MO AVG	100 DAILY MX	MG/L		1/7	GRAB
OIL & GREASE FREON EXTR-GRAV METH	SAMPLE MEASUREMENT	<54	<54	26	*****	<5	<5	19	0	3 / 31	GRAB
00556 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	125 MO AVG	167 DAILY MAX	LBS/DAY	*****	15 MO AVG	20 DAILY MX	MG/L		1/7	GRAB
ALUMINUM	SAMPLE MEASUREMENT	*****	*****	**	*****	*****	Conditional / NR this MP	19	0	0 / 31	GRAB
01105 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	10 DAILY MX	MG/L		5/7	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	1.298	1.298	03	*****	*****	*****	**	0	9 / 31	PMPLOG
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MX	MGD	*****	*****	*****	*****		1/1	PMPLOG
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	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 FINES 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			
JOHN A. SCALICE		615	365-8116	96	02	27	
SITE VICE PRESIDENT		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		AREA CODE	NUMBER	YEAR	MO
TYPED OR PRINTED							

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)  
 If the TBSS is discharged directly to the yard holding pond, the sump effluent shall be subject to the limitations for pH, TSS, and O&G and monitored 5/week under DSN 103. Aluminum analyses are only applicable when effluent from the alum sludge ponds is discharged to points other than the low volume waste treatment pond. Discharged LVWTP 9 days in January.

Name **TVA-WATTS BAR NUCLEAR PLANT**  
 Address **P.O. BOX 2000**  
 (INTEROFFICE MOB 2U)  
**SPRING CITY, TN 37381**  
 Facility **TVA-WATTS BAR NUCLEAR PLANT**  
 Location **RHEA COUNTY**

TN0020168  
 PERMIT NUMBER

107 G  
 DISCHARGE NO.

Metal Cleaning Waste  
 Pond

OMB No. 2030-0004

Approval Expires 10-31-94

(WBN-TVA MS Access Electronic version)

ATTN: VERNON J. SHANKS, ENV. MGR.

MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
From: 96	01	01	To: 96	01	31

PARAMETER	SAMPLE MEASUREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
PH		*****	*****	**	7.0	*****	7.0	12	0	2 / 31	GRAB
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*****	6.0 DAILY MN	*****	9.0 DAILY MX	SU		1/1	GRAB
SOLIDS, TOTAL SUSPENDED		*****	*****	**	*****	*****	5	19	0	1 / 31	COMPOS
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	30 DAILY MX	MG/L		1/1	COMPOS
OIL & GREASE FREON EXTR-GRAV METH		*****	*****	**	*****	*****	<5	19	0	1 / 31	GRAB
00556 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	15 DAILY MX	MG/L		1/1	GRAB
PHOSPHORUS, TOTAL (AS P)		*****	*****	**	*****	*****	Conditional / NR this MP	19	0	0 / 31	COMPOS
00665 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	1.0 DAILY MX	MG/L		1/1	COMPOS
COPPER, TOTAL (AS CU)		*****	*****	**	*****	*****	<0.01	19	0	2 / 31	COMPOS
01042 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	1.0 DAILY MX	MG/L		1/1	COMPOS
IRON, TOTAL (AS FE)		*****	*****	**	*****	*****	0.48	19	0	2 / 31	COMPOS
01045 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	1.0 DAILY MX	MG/L		1/1	COMPOS
FLOW, IN CONDUIT OR THRU TREATMENT PLANT		2.175	2.175	03	*****	*****	*****	**	0	1 / 31	CALCTD
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MX	MGD	*****	*****	*****	*****		1/1	CALCTD

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  JOHN A. SCALICE  SITE VICE PRESIDENT  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 FINES 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		
		615	365-8116	96	02	27
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT  <i>Vernon J. Shanks</i>		AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)  
 No Phosphorous containing cleaning solutions have been discharged to this pond since its last release.

Name **TVA-WATTS BAR NUCLEAR PLANT**  
 Address **P.O. BOX 2000**  
 (INTEROFFICE MOB 2U)  
**SPRING CITY, TN 37381**  
 Facility **TVA-WATTS BAR NUCLEAR PLANT**  
 Location **RHEA COUNTY**

TN0020168  
 PERMIT NUMBER

111 G  
 DISCHARGE NO.

Combined Sewage  
 Treatment Plants

MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
96	01	01	To:	96	01 31

ATTN: VERNON J. SHANKS, ENV. MGR.

PARAMETER	X	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
BOD, 5-DAY (20 DEG. C)	SAMPLE MEASUREMENT	*****	*****	**	*****	< 5	21	19	0	6 / 31	GRAB
00310 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*****	*****	30 MO AVG	45 DAILY MX	MG/L		1/7	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	*****	*****	**	*****	3	4	19	0	5 / 31	GRAB
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*****	*****	30 MO AVG	45 DAILY MX	MG/L		1/7	GRAB
SOLIDS, SETTLEABLE	SAMPLE MEASUREMENT	*****	*****	**	*****	*****	< 0.1	25	0	24 / 31	GRAB
00545 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	1.0 DAILY MX	ML/L		2/7	GRAB
COLIFORM, FECAL	SAMPLE MEASUREMENT	*****	*****	**	*****	< 20	52	13	0	6 / 31	GRAB
31616 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*****	*****	200 MO AVG	1000 DAILY MX	N/100ML		1/7	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.036	0.082	03	*****	*****	*****	**	0	31 / 31	RCORDR
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MX	MGD	*****	*****	*****	*****		CONTIN UOUS	RCORDR
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT	*****	*****	**	*****	*****	0.6	19	0	24 / 31	GRAB
50060 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	2.0 DAILY MX	MG/L		5/7	GRAB
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER JOHN A. SCALICE SITE VICE PRESIDENT 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 FINES 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		
		615	365-8116	96	02	27
		AREA CODE	NUMBER	YEAR	MO	DAY

*Vernon J. Shanks*  
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

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

Name **TVA-WATTS BAR NUCLEAR PLANT**  
 Address **P.O. BOX 2000**  
 (INTEROFFICE MOB 2U)  
**SPRING CITY, TN 37381**  
 Facility **TVA-WATTS BAR NUCLEAR PLANT**  
 Location **RHEA COUNTY**

TN0020168  
 PERMIT NUMBER

112 G  
 DISCHARGE NO.

Runoff Holding Pond

ATTN: VERNON J. SHANKS, ENV. MGR.

MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
From: 96	01	01	To: 96	01	31

PARAMETER	X	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
OXYGEN, DISSOLVED (DO)	SAMPLE MEASUREMENT	*****	*****	**	15.8	*****	*****	19	0	6 / 31	GRAB
00300 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*****	5.0 DAILY MN	*****	*****	MG/L		1/7	GRAB
PH	SAMPLE MEASUREMENT	*****	*****	**	7.1	*****	7.9	12	0	6 / 31	GRAB
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*****	6.0 DAILY MN	*****	9.5 DAILY MX	SU		1/7	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	*****	*****	**	*****	3	6	19	0	6 / 31	GRAB
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*****	*****	30 MO AVG	100 DAILY MX	MG/L		1/7	GRAB
NITROGEN, AMMONIA TOTAL (AS N)	SAMPLE MEASUREMENT	*****	*****	**	*****	0.1	0.1	19	0	6 / 31	GRAB
00610 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*****	*****	5.0 MO AVG	12 INST MAX	MG/L		1/7	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.343	0.653	03	*****	*****	*****	**	0	6 / 31	INSTAN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MX	MGD	*****	*****	*****	*****		1/7	INSTAN
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT	*****	*****	**	*****	<0.1	<0.1	19	0	6 / 31	GRAB
50060 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*****	*****	.011 WEEKLY AVG	.019 INST MAX	MG/L		1/7	GRAB
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER JOHN A. SCALICE SITE VICE PRESIDENT 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 FINES 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		
		615	365-8116	96	02	27
	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY

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

# WATTS BAR NUCLEAR PLANT

WELL NO. 1 GROUNDWATER MONITORING

FY 1996



05-Feb-96

DATCOL	BORON (ug/l)	SODIUM (mg/l)	AMMONIA (mg/l)	PH (S. U.)	TOTAL PHOSPORUS (mg/l)
10/3/95	<200.	1800.	0.42	7.2	0.01
10/11/95	230.	2200.	0.46	7.2	0.04
10/17/95	<200.	2200.	0.48	7.4	0.04
10/25/95	<200.	2000.	0.48	7.6	0.01
11/1/95	<200.	2100.	0.5	7.3	0.02
11/8/95	<200.	1800.	0.3	7.3	<0.01
11/15/95	220.	1900.	0.44	7.5	0.02
11/21/95	210.	1900.	0.49	7.6	0.02
11/28/95	<200.	2000.	0.41	7.3	<0.01
12/6/95	<200.	2100.	0.45	7.3	0.01
12/13/95	200.	1900.	0.35	7.4	0.01
12/20/95	260.	2200.	0.49	7.7	0.01
12/26/95	240.	2100.	0.48	7.5	<0.01
1/2/96	260.	2100.	0.48	7.2	<0.01
1/10/96	290.	2100.	0.44	7.6	0.01
1/18/96	300.	350.	0.08	7.5	0.06
1/23/96	265.	2000.	0.57	7.5	<0.01
MAX.	300.	350.	0.57	7.7	0.06
MIN.	<200.	1800.	0.08	7.2	<0.01