



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

July 29, 1996

Tennessee Department of Environment & Conservation  
Division of Water Pollution Control  
Compliance Review Section  
Sixth Floor, L & C Annex  
401 Church Street  
Nashville, Tennessee 37243-1534

Dear Sir:

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

Enclosed is the Discharge Monitoring Report for the month of June 1996, including the groundwater monitoring results. We have also included a 3-1/2 inch computer diskette with text files for April, May, and June DMRs. Please notify me of any formatting changes you might require. If you should have any questions or need additional information, please contact me at (423) 365-3325 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,

Odie E. Hickman, Jr.  
Radwaste/Environmental Superintendent

Enclosures

cc (Enclosure--paper copies only):

Mr. R. E. Martin, 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

9608090069 960630  
PDR ADOCK 05000390  
R PDR

Recip: R.E. Martin

# WATTS BAR NUCLEAR PLANT

WELL NO. 1 GROUNDWATER MONITORING

FY 1996



09-Jul-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
1/31/96	290.	2500.	0.53	7.7	0.02
2/14/96	<200.	2500.	0.55	7.5	0.02
2/21/96	260.	2500.	0.57	7.7	0.02
2/27/96	290.	2400.	0.53	9.1 *	0.06
3/5/96	290.	2500.	0.52	7.9	0.04
3/12/96	220.	1300.	0.29	7.4	0.02
3/20/96	250.	1900.	0.4	7.6	0.02
3/27/96	<500.	2000.	0.49	7.4	0.07
4/2/96	290.	1900.	0.45	7.6	0.04
4/9/96	<200.	630.	0.13	7.4	0.03
4/16/96	<200.	2100.	0.48	7.4	0.01
4/24/96	240.	2200.	0.5	7.4	0.02
4/30/96	290.	2100.	0.48	7.3	0.02
5/7/96	340.	2100.	0.52	7.6	<0.01
5/14/96	280.	2300.	0.5	7.8	<0.01
5/21/96	280.	2200.	0.56	7.6	0.02
5/28/96	200.	1700.	0.43	7.4	0.04
6/5/96	230.	1900.	0.44	7.7	0.03
6/11/96	210.	1900.	0.54	7.5	0.035
6/18/96	<200.	2000.	0.49	7.4	0.02
6/25/96	<200.	73.	0.03	7.3	0.04
MAX.	340.	2500	0.57	9.1	0.07
MIN.	<200.	73	0.03	7.2	<0.01

\*pH Analytical Results For 2/27/96 Are Questionable

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

NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES)

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**

DISCHARGE MONITORING REPORT (DMR)

TN0020168  
 PERMIT NUMBER

101 G  
 DISCHARGE NO.

Diffuser Discharge

Form Approved.

OMB No. 2030-0004

Approval Expires 10-31-94

(WBN-TVA MS Access Electronic version)

ATTN: O. ERSKIN HICKMAN Jr., ENV. MGR.

MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
From: 96	06	01	To: 96	06	30

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
TEMPERATURE, WATER DEG. CENTIGRADE	SAMPLE MEASUREMENT	*****	*****	**	*****	*****	29	04	0	30 / 30	RCORDR
00010 1 0 0	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	35	DEG. C		CONTINUOUS	RCORDR
EFFLUENT GROSS VALUE							DAILY MX				
PH	SAMPLE MEASUREMENT	*****	*****	**	8.3	*****	8.5	12	0	5 / 30	GRAB
00400 1 0 0	PERMIT REQUIREMENT	*****	*****	*****	6.0	*****	9.0	SU		1/7	GRAB
EFFLUENT GROSS VALUE					DAILY MN		DAILY MX				
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	*****	*****	**	*****	9	11	19	0	4 / 30	GRAB
00530 1 0 0	PERMIT REQUIREMENT	*****	*****	*****	*****	30	100	MG/L		1/7	GRAB
EFFLUENT GROSS VALUE						MO AVG	DAILY MX				
OIL & GREASE FREON EXTR-GRAV METH	SAMPLE MEASUREMENT	*****	*****	**	*****	< 5	< 5	19	0	4 / 30	GRAB
00556 1 0 0	PERMIT REQUIREMENT	*****	*****	*****	*****	15	20	MG/L		1/7	GRAB
EFFLUENT GROSS VALUE						MO AVG	DAILY MX				
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	47.768	71.440	03	*****	*****	*****	**	0	30 / 30	RCORDR
50050 1 0 0	PERMIT REQUIREMENT	REPORT	REPORT	MGD	*****	*****	*****	*****		CONTINUOUS	RCORDR
EFFLUENT GROSS VALUE		MO AVG	DAILY MX								
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT	*****	*****	**	*****	*****	0.09	19	0	80 / 30	M-GRAB
50060 1 0 0	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	0.10	MG/L		5/7	M-GRAB
EFFLUENT GROSS VALUE							DAILY MX				
	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		
		423	365-3325	96	07	23
		AREA CODE	NUMBER	YEAR	MO	DAY

*O.E. Hickman Jr.*  
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)  
 At the request of TDEC's Chattanooga Field Office, this discharge was sampled for ammonia (storet code 00610) 4 times during the release of DSN 107 (Unlined Pond). Results were 0.02; 0.10; 0.08; and 0.21 mg/l.

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

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**

NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

TN0020168  
 PERMIT NUMBER

102 G  
 DISCHARGE NO.

Yard Holding Pond  
 Emergency Overflow  
 Weir

Form Approved.

OMB No. 2030-0004

Approval Expires 10-31-94

(WBN-TVA MS Access Electronic version)

ATTN: O. ERSKIN HICKMAN Jr., ENV. MGR.

MONITORING PERIOD  
 From: **96 06 01** To: **96 06 30**

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
TEMPERATURE, WATER DEG. CENTIGRADE	SAMPLE MEASUREMENT	*****	*****	**	*****	*****	No Discharge	04	0	0 / 30	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 / 30	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 / 30	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 / 30	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 / 30	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 / 30	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

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.)

*O.E. Hickman Jr.*  
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE

423

365-3325

AREA CODE

DATE

96

07

YEAR

MO

DAY

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  
 DISCHARGE NO.

Low Vol. Waste  
 Treatment Pond

Form Approved.

OMB No. 2030-0004

Approval Expires 10-31-94

(WBN-TVA MS Access Electronic version)

ATTN: O. ERSKIN HICKMAN Jr., ENV. MGR.

MONITORING PERIOD  
 From: **96 06 01** To: **96 06 30**

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
PH	SAMPLE MEASUREMENT	*****	*****	**	6.1	*****	8.6	12	0	9 / 30	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	108	144	26	*****	15	20	19	0	2 / 30	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	<36	<36	26	*****	<5	<5	19	0	2 / 30	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 / 30	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	0.860	0.860	03	*****	*****	*****	**	0	5 / 30	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	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		
		423	365-3325	96	07	23
JOHN A. SCALICE SITE VICE PRESIDENT		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		AREA CODE	NUMBER	YEAR MO DAY
TYPED OR PRINTED						

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

Carbon dioxide used to prevent pH excursions during discharge. When TBSS is discharged directly to the yard holding pond, the sump effluent shall be monitored for pH, TSS, and O&G 5/week.  
 Aluminum analyses are only applicable when the alum sludge ponds are discharged to points other than the LVWTP. Discharged LVWTP 5 days in June.

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: O. ERSKIN HICKMAN Jr., ENV. MGR.

MONITORING PERIOD  
 From: **96 06 01** To: **96 06 30**

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
PH	SAMPLE MEASUREMENT	*****	*****	**	6.8	*****	8.4	12	0	3 / 30	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	SAMPLE MEASUREMENT	*****	*****	**	*****	*****	14	19	0	2 / 30	COMPOS
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	30 DAILY MX	MG/L		1/1	COMPOS
OIL & GREASE FREON EXTR-GRAV METH	SAMPLE MEASUREMENT	*****	*****	**	*****	*****	< 5	19	0	2 / 30	GRAB
00556 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	15 DAILY MX	MG/L		1/1	GRAB
PHOSPHORUS, TOTAL (AS P)	SAMPLE MEASUREMENT	*****	*****	**	*****	*****	Conditional / NR this MP	19	0	0 / 30	COMPOS
00665 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	1.0 DAILY MX	MG/L		1/1	COMPOS
COPPER, TOTAL (AS CU)	SAMPLE MEASUREMENT	*****	*****	**	*****	*****	0.02	19	0	2 / 30	COMPOS
01042 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	1.0 DAILY MX	MG/L		1/1	COMPOS
IRON, TOTAL (AS FE)	SAMPLE MEASUREMENT	*****	*****	**	*****	*****	0.99	19	0	2 / 30	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	SAMPLE MEASUREMENT	1.354	2.510	03	*****	*****	*****	**	0	2 / 30	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.)

*O.E. Hickman Jr.*  
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE

DATE

423

365-3325

96

07

23

AREA CODE

NUMBER

YEAR

MO

DAY

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

No phosphorous containing cleaning solutions have been used since the last release of this pond.

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

NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES)

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**

## DISCHARGE MONITORING REPORT (DMR)

TN0020168  
 PERMIT NUMBER

111 G  
 DISCHARGE NO.

Combined Sewage  
 Treatment Plants

Form Approved.

OMB No. 2030-0004

Approval Expires 10-31-94

(WBN-TVA MS Access Electronic version)

ATTN: O. ERSKIN HICKMAN Jr., ENV. MGR.

MONITORING PERIOD  
 From: **96 06 01** To: **96 06 30**

PARAMETER		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	13	19	0	5 / 30	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	7	19	0	4 / 30	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	22 / 30	GRAB
00545 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	1.0 DAILY MX	ML/L		2/7	GRAB
COLIFORM, FECAL	SAMPLE MEASUREMENT	*****	*****	**	*****	< 32	76	13	0	5 / 30	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	0.027	0.061	03	*****	*****	*****	**	0	30 / 30	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	*****	*****	**	*****	*****	0.7	19	0	25 / 30	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.)

*O.E. Hickman Jr.*  
 SIGNATURE OF PRINCIPAL EXECUTIVE  
 OFFICER OR AUTHORIZED AGENT

TELEPHONE

423

365-3325

DATE

96

07

23

AREA CODE

NUMBER

YEAR

MO

DAY

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

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

NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES)

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**

DISCHARGE MONITORING REPORT (DMR)

TN0020168  
 PERMIT NUMBER

112 G  
 DISCHARGE NO.

Runoff Holding Pond

Form Approved.

OMB No. 2030-0004

Approval Expires 10-31-94

(WBN-TVA MS Access Electronic version)

ATTN: O. ERSKIN HICKMAN Jr., ENV. MGR.

MONITORING PERIOD  
 From: YEAR **96** MO **06** DAY **01** To: YEAR **96** MO **06** DAY **30**

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
OXYGEN, DISSOLVED (DO) 00300 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	**	6.3	*****	*****	19	0	5 / 30	GRAB
	PERMIT REQUIREMENT	*****	*****	*****	5.0 DAILY MN	*****	*****	MG/L		1/7	GRAB
PH 00400 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	**	7.1	*****	8.1	12	0	5 / 30	GRAB
	PERMIT REQUIREMENT	*****	*****	*****	6.0 DAILY MN	*****	9.5 DAILY MX	SU		1/7	GRAB
SOLIDS, TOTAL SUSPENDED 00530 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	**	*****	12	17	19	0	5 / 30	GRAB
	PERMIT REQUIREMENT	*****	*****	*****	*****	30 MO AVG	100 DAILY MX	MG/L		1/7	GRAB
NITROGEN, AMMONIA TOTAL (AS N) 00610 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	**	*****	0.4	0.5	19	0	5 / 30	GRAB
	PERMIT REQUIREMENT	*****	*****	*****	*****	5.0 MO AVG	12 INST MAX	MG/L		1/7	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	0.343	0.653	03	*****	*****	*****	**	0	5 / 30	INSTAN
	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MX	MGD	*****	*****	*****	*****		1/7	INSTAN
CHLORINE, TOTAL RESIDUAL 50060 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	**	*****	<0.1	<0.1	19	0	5 / 30	GRAB
	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		
		423	365-3325	96	07	23
		AREA CODE	NUMBER	YEAR	MO	DAY

*O.E. Hickman Jr.*  
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

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