



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

May 22, 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 APRIL 1996

Enclosed is the Discharge Monitoring Report and the Ground Water Monitoring Report for the month of April 1996. A Notice of Noncompliance is also enclosed for iron limits on Discharge Serial Number 107. 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,

O. E. Hickman
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

9606030209 960430
PDR ADOCK 05000390
R PDR

IE2311

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

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	04	01	To: 96	04	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	*****	*****	**	*****	*****	18	04	0	30 / 30	RCORDR
00010 1 0 0	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	35 DAILY MX	DEG. C		CONTINUOUS	RCORDR
EFFLUENT GROSS VALUE											
PH	SAMPLE MEASUREMENT	*****	*****	**	7.8	*****	8.5	12	0	6 / 30	GRAB
00400 1 0 0	PERMIT REQUIREMENT	*****	*****	*****	6.0 DAILY MN	*****	9.0 DAILY MX	SU		1/7	GRAB
EFFLUENT GROSS VALUE											
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	*****	*****	**	*****	8	8	19	0	5 / 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	*****	*****	**	*****	<5	6	19	0	5 / 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	37.536	51.392	03	*****	*****	*****	**	0	30 / 30	RCORDR
50050 1 0 0	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MX	MGD	*****	*****	*****	*****		CONTINUOUS	RCORDR
EFFLUENT GROSS VALUE											
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT	*****	*****	**	*****	*****	0.06	19	0	88 / 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	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	423	365-3325	96	05	24						
SITE VICE PRESIDENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT										
TYPED OR PRINTED						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)

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: YEAR **96** MO **04** DAY **01** To: YEAR **96** MO **04** DAY **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 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	40 DAILY MX	DEG. C		1/1	INSTAN
PH	SAMPLE MEASUREMENT	*****	*****	**	No Discharge	*****	No Discharge	12	0	0 / 30	GRAB
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*****	6.0 MINIMUM	*****	9.0 MAXIMUM	SU		1/7	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	*****	*****	**	*****	No Discharge	No Discharge	19	0	0 / 30	GRAB
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*****	*****	30 MO AVG	100 DAILY MX	MG/L		1/7	GRAB
OIL & GREASE FREON EXTR-GRAV METH	SAMPLE MEASUREMENT	*****	*****	**	*****	No Discharge	No Discharge	19	0	0 / 30	GRAB
00556 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*****	*****	15 MO AVG	20 DAILY MX	MG/L		1/7	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	No Discharge	No Discharge	03	*****	*****	*****	**	0	0 / 30	GRAB
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MX	MGD	*****	*****	*****	*****		1/1	GRAB
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT	*****	*****	**	*****	*****	No Discharge	19	0	0 / 30	M-GRAB
50060 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	0.10 DAILY MX	MG/L		5/7	M-GRAB
	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						423 365-3325		96	05	24	
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)

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

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: YEAR MO DAY To: YEAR MO DAY
 96 04 01 To: 96 04 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	*****	*****	**	7.6	*****	8.5	12	0	13 / 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	8	11	26	*****	10	14	19	0	4 / 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	< 4	5	26	*****	< 5	6	19	0	4 / 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	0.097	0.097	03	*****	*****	*****	**	0	26 / 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			
JOHN A. SCALICE						423 365-3325		96	05	24	
SITE VICE PRESIDENT						AREA CODE NUMBER		YEAR	MO	DAY	
TYPED OR PRINTED						SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT					

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

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 26 days in April.

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

107 G
 DISCHARGE NO.

Metal Cleaning Waste
 Pond

Form Approved.

OMB No. 2030-0004

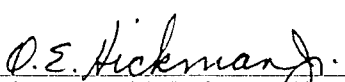
Approval Expires 10-31-94

(WBN-TVA MS Access Electronic version)

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

MONITORING PERIOD
 From: YEAR 96 MO 04 DAY 01 To: YEAR 96 MO 04 DAY 30

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	*****	*****	**	8.0	*****	8.0	12	0	2 / 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	*****	*****	**	*****	*****	7	19	0	1 / 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	1 / 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	*****	*****	**	*****	*****	0.06	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	*****	*****	**	*****	*****	1.10	19	2	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	3.050	3.050	03	*****	*****	*****	**	0	1 / 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	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		 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	423	365-3325	96	05	24
SITE VICE PRESIDENT			AREA CODE	NUMBER	YEAR	MO	DAY
TYPED OR PRINTED							

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. See the attached Notice of Noncompliance for the Iron content of this month's discharge.

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

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: YEAR **96** MO **04** DAY **01** To: YEAR **96** MO **04** DAY **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	*****	*****	**	*****	3	5	19	0	4 / 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	*****	*****	**	*****	< 2	2	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	*****	*****	**	*****	*****	< 1.0	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	*****	*****	**	*****	118	290	13	0	4 / 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	0.032	0.045	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	*****	*****	**	*****	*****	0.5	19	0	22 / 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	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						423 365-3325		96	05	24	
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)

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

NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

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 Runoff Holding Pond
 DISCHARGE NO.

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 04 DAY 01 To: YEAR 96 MO 04 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)	SAMPLE MEASUREMENT	*****	*****	**	7.8	*****	*****	19	0	5 / 30	GRAB
00300 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*****	5.0 DAILY MN	*****	*****	MG/L		1/7	GRAB
PH	SAMPLE MEASUREMENT	*****	*****	**	8.0	*****	9.3	12	0	5 / 30	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	*****	*****	**	*****	15	25	19	0	5 / 30	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	5 / 30	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	0.377	0.653	03	*****	*****	*****	**	0	5 / 30	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	5 / 30	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	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						423 365-3325		96	05	24	
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)

WATTS BAR NUCLEAR PLANT

WELL NO. 1 GROUNDWATER MONITORING

FY 1996



10-May-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
MAX.	300.	630.	0.57	9.1	0.07
MIN.	<200.	1300.	0.08	7.2	<0.01

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

NOTICE OF NONCOMPLIANCE WITH EFFLUENT LIMITATIONS
NPDES PERMIT TN0020168
WATTS BAR NUCLEAR PLANT

APRIL 1996

Discharge Serial Number (DSN) 107: Metal Cleaning Waste Ponds

Description of the Noncompliance:

DSN 107 is batch released into the Yard Holding Pond (YHP). The YHP effluent is combined with the effluent from the cooling tower blowdown before being discharged to the Tennessee river through two diffusers (DSN 101). Total flow through the diffusers on 4/29/96 was 51.392 million gallons and serves as a source of additional dilution for any metal cleaning wastes discharged. The NPDES limitation for iron on the DSN 107 effluent is 1.0 ppm. The 3.050 million gallons discharged contained 1.1 ppm iron. The EPA method used to analyze for this parameter ensures an accuracy of $\pm 5\%$. Hence the true value for the iron content lies within the range of 1.045 (rounded to 1.0 ppm) and 1.155 (rounded to 1.2 ppm). The effluent was sampled in duplicate and both samples contained 1.1 ppm iron. The volume and quality of this effluent is reflected on the discharge monitoring report for April 1996. The sedimentation and dilution provided by the YHP and the cooling tower blowdown make it unlikely that the 1.0 ppm limitation was still being exceeded at DSN 101.

Cause and Period of the Noncompliance

Power ascension testing (bringing the plant up and down in power) generates larger than normal amounts of iron in metal cleaning wastes. The ponds are released as a batch, hence the volume and quality of water are well documented.

Steps Taken to Reduce, Eliminate, or Prevent Recurrence of the Noncompliance:

Several prerelease iron samples were collected for this pond. Initial samples revealed greater than 1.0 ppm iron and pH adjustments were performed in an effort to reduce the iron levels in solution/suspension. A single sample following treatment revealed 0.73 ppm iron and the pond was released. At least one additional sample should have been collected. Also, Watts Bar Nuclear Plant runs the prerelease sample without digestion to save time. Non digested samples are accurate provided there are no visible sediments in the sample. Hence the admin. limit will be changed from 0.9 ppm to 0.6 ppm for iron and copper and a visual inspection will ensure there is no visible sediment in the sample container that could contribute to iron concentration. These precautions should preclude a recurrence of this event. All technicians performing metal cleaning waste releases have been trained and the work package changes will be effected as soon as possible.