



Tennessee Valley Authority, 1101 Market Street, Chattanooga, Tennessee 37402

December 27, 2011

10 CFR 50.4

U.S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Washington, DC 20555-0001

Watts Bar Nuclear Plant, Unit 1  
Facility Operating License No. NPF-90  
NRC Docket No. 50-390

**Subject: National Pollutant Discharge Elimination System Permit No. TN0020168  
– Written Submittal of State Reports Regarding Intake Pumping Station  
Releases**

- References:
1. Letter from D. E. Grissette (TVA) to A. Young (Tennessee Department of Environment and Conservation), "National Pollutant Discharge Elimination System (NPDES) Permit No. TN0020168 - Written Submission Regarding Intake Pumping Station (IPS) Releases," dated June 20, 2011
  2. Letter from D. E. Grissette (TVA) to D. Waits (Tennessee Department of Environment and Conservation), "NPDES Permit No. TN0020168 and Hydrostatic Test Water Permit TNG670347 - Discharge Monitoring Reports (DMR) for June 2011 and Revised IMP 107 Sheets," dated July 13, 2011

Provided as Enclosures to this letter are two reports the Tennessee Valley Authority (TVA) submitted to the Tennessee Department of Environment and Conservation (TDEC) regarding the June 16, 2011, Intake Pumping Station (IPS) release at Watts Bar Nuclear Plant (WBN), Unit 1. On June 17, 2011, TVA provided verbal notification of this release to TDEC in conjunction with subsequent written reports dated June 20 and July 13, 2011 (above references). 10 CFR 50.72(b)(2)(xi) notification to the NRC (Event Notification 46967) was also made on June 17, 2011.

In accordance with the WBN Unit 1 Environmental Protection Plan (EPP), Appendix B to Facility Operating License NPF-90, the NRC is to be provided a copy of the referenced letters. EPP Section 5.4.2 states, "Events reportable under this subsection that also require reports to other Federal, State or local agencies shall be reported in accordance with those reporting requirements in lieu of the requirements of this U.S. subsection. The NRC shall

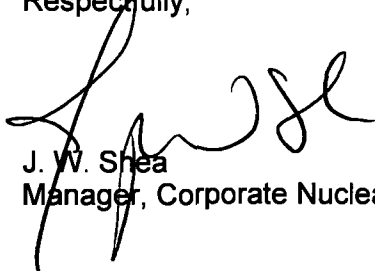
C001  
NRR

be provided with a copy of such report at the same time it is submitted to the other agency.”

These reports were not provided to the NRC at the time of their submittal to TDEC on June 20 and July 13, 2011, which has been entered into TVA's corrective action program.

There are no regulatory commitments contained in this submittal. If there are any questions relating to this matter, please contact Kara M. Stacy, Program Manager, Corporate Nuclear Licensing, at 423-751-3489.

Respectfully,



J. W. Shea  
Manager, Corporate Nuclear Licensing

Enclosures:

1. Letter from Don Grissette (TVA) to Angela Young (Tennessee Department of Environment and Conservation), "Tennessee Valley Authority (TVA) - Watts Bar Nuclear (WBN) Plant - National Pollutant Discharge Elimination System (NPDES) Permit No. TN0020168 – Written Submission Regarding Intake Pumping Station (IPS) Releases," dated June 20, 2011
2. Letter from Don Grissette (TVA) to Dana Waits (Tennessee Department of Environment and Conservation), "Tennessee Valley Authority (TVA) - Watts Bar Nuclear Plant (WBN) - NPDES Permit No. TN0020168 – Discharge Monitoring Reports (DMR) for June 2011 and Revised IMP 107 Sheets," dated July 13, 2011

cc (Enclosures):

NRC Regional Administrator – Region II  
NRC Senior Resident Inspector – Watts Bar Nuclear Plant, Unit 1  
NRC Senior Resident Inspector – Watts Bar Nuclear Plant, Unit 2

ENCLOSURE 1

TENNESSEE VALLEY AUTHORITY  
WATTS BAR NUCLEAR PLANT, UNIT 1

LETTER FROM DON GRISSETTE (TVA) TO ANGELA YOUNG (TDEC),  
"TENNESSEE VALLEY AUTHORITY (TVA) - WATTS BAR NUCLEAR (WBN)  
PLANT - NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
PERMIT NO. TN0020168 - WRITTEN SUBMISSION REGARDING INTAKE PUMPING  
STATION (IPS) RELEASES," DATED JUNE 20, 2011



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

June 20, 2011

Ms. Angela Young  
Chattanooga Environmental Field Office  
Division of Water Pollution Control  
Tennessee Department of Environment  
and Conservation  
State Office Building, Suite 550  
540 McCallie Avenue  
Chattanooga, Tennessee 37402-2013

Dear Ms. Young:

TENNESSEE VALLEY AUTHORITY (TVA) – WATTS BAR NUCLEAR (WBN) PLANT –  
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT  
NO. TN0020168 – WRITTEN SUBMISSION REGARDING INTAKE PUMPING  
STATION (IPS) RELEASES

Per your request on June 17, 2011, TVA is providing written notification for the subject releases that were observed on June 16, 2011, at 13:09 and 14:35 EST. Verbal notification was provided by telephone to the Chattanooga Environmental Field Office on June 17, 2011, at 09:48 EST. At no time has there been a threat to public drinking supplies, to human health, or the environment. Furthermore, WBN has not observed fish distress, fish mortality, or abnormal bird migration since the day of discovery.

This information along with any updates will be provided in the WBN June Discharge Monitoring Report (DMR).

If you have questions or need additional information, please contact Stephanie Howard at (423) 593-4467 of Watts Bar Environmental staff.

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

Sincerely,

Don E. Grissette  
Vice President  
Watts Bar Nuclear Plant

**WATTS BAR NUCLEAR (WBN)  
INTAKE PUMPING STATION RELEASES  
ATTACHMENT**

**Description of the Release and Determination of Cause:**

On June 16, 2011 at 13:09 EST, WBN personnel noticed a small stream of water releasing over a trough on the outside of the Intake Pumping Station (IPS) and entering the Intake Forebay. The water was determined to be raw water treated with sodium hypochlorite and Flogard MS6237, a zinc chloride and phosphoric acid mixture. These chemicals are injected into plant systems per the WBN Biocide Corrosion Treatment Plan (BCTP). The chemical feeds were terminated at 13:20 EST (sodium hypochlorite) and 14:00 EST (Flogard MS6237). The water release from the trough was terminated at 14:30 EST. Samples in the Intake at the release were collected for total residual chlorine (TRC), pH, total phosphorus, and total zinc. TRC collected at 15:18 was initially 0.19 mg/L and decreased to less than <0.05 mg/L by 18:57 EST. The Daily Maximum Calculation for TRC was determined to be <0.09 mg/L. pH collected at 14:52 EST at the same location was 7.2. Total phosphorus and total zinc results are pending and will be provided in the June Discharge Monitoring Report (DMR).

The cause of this event was determined to be an obstruction from vegetation in the trough that blocked the flow from the Essential Raw Cooling Water (ERCW) strainers, causing the water flow to release over the side of the trough. The trough is located approximately three quarters of the way up the south wall of the IPS and runs the entire length of the south side of the building. It directs water from the ERCW strainer and traveling water screen backwash to the Yard Holding Pond which discharges to the Tennessee River via NPDES Outfall 101.

At 14:35 EST soon after the trough release was terminated, WBN personnel then noticed a release from a broken pipe on the same outer wall outside of the IPS with water entering the Intake Forebay. It was determined that this water was treated with Flogard MS6237. WBN personnel terminated the A and B Corrosion Control Chemical Dilution Water Supply to stop the flow from the broken pipe at 16:05 EST on June 16, 2011.

At no time was there a threat to public drinking supplies, to human health, or the environment. Furthermore, the locations of the releases are in close proximity of the plant intake and would likely be drawn through the IPS for plant use and discharged through permitted outfalls. TVA biologists surveyed by boat the Intake Forebay and downstream of the diffusers the evening of June 16, 2011. No fish distress, fish mortality, or abnormal bird migration was observed.

**Period of Release:**

The trough release was initially discovered on June 16, 2011 at 13:09 EST and was terminated at 14:30 EST on June 16, 2011. The broken pipe release was initially discovered on June 16, 2011 at 14:35 EST and was terminated at 16:05 EST on June 16, 2011. It is unknown when the releases began.

## INTAKE PUMPING STATION RELEASES

Page 2

### Steps Being Taken to Reduce, Eliminate, and Prevent Recurrence:

WBN has documented the release in the TVA Corrective Action Program and is in the process of determining corrective actions to reduce and prevent recurrence of these releases. Any updates will be reported in the WBN June DMR.

Immediate actions were to terminate sodium hypochlorite and Flogard MS6237 chemical injections. Although a splash guard was added to the trough in 2010 to prevent a trough overflow, the obstruction from vegetation prevented the splash guard from working effectively. The vegetation was removed at 19:00 EST on June 16, 2011. The trough capacity was then tested with maximum raw (untreated) water flow (e.g. three screen wash pumps in service) with no issues observed. The broken pipe is currently scheduled for repair. After repair, validation of the repair will be conducted with raw water flow prior to the use of any treatment chemicals.

ENCLOSURE 2

TENNESSEE VALLEY AUTHORITY  
WATTS BAR NUCLEAR PLANT, UNIT 1

LETTER FROM DON GRISSETTE (TVA) TO DANA WAITS (TDEC),  
"TENNESSEE VALLEY AUTHORITY (TVA) - WATTS BAR NUCLEAR PLANT  
(WBN) - NPDES PERMIT NO. TN0020168 - DISCHARGE MONITORING  
REPORTS (DMR) FOR JUNE 2011 AND REVISED IMP 107 SHEETS,"  
DATED JULY 13, 2011



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

July 13, 2011

Ms. Dana Waits  
Division of Water Pollution Control  
Tennessee Department of Environment  
and Conservation  
Compliance Review Section  
Sixth Floor, L & C Tower  
401 Church Street  
Nashville, Tennessee 37243-1534

Dear Ms. Dana Waits:

**TENNESSEE VALLEY AUTHORITY (TVA) - WATTS BAR NUCLEAR PLANT (WBN) -  
NPDES PERMIT NO. TN0020168 AND HYDROSTATIC TEST WATER PERMIT  
TNG670347 - DISCHARGE MONITORING REPORTS (DMR) FOR JUNE 2011 AND  
REVISED IMP 107 SHEETS**

Enclosed is the compliance paper copy of the DMR for the month of June 2011, the Hydrostatic Test Water DMR governed by NPDES Permit No. TNG670347, and revised DMR sheets for IMP 107.

In accordance with NPDES permit number TNG670347, WBN discharged hydrostatic test water to the Tennessee River via Outfall 101. These discharges were in accordance with effluent limitations and monitoring requirements. These monitoring results are included on a separate DMR sheet.

During a records review, TVA noted a DMR software error which resulted in the duplicate samples not being averaged for the "daily maximum concentration". In addition, the sample type was erroneously identified as composite instead of grab for several parameters. WBN is submitting the revised IMP 107 DMR sheets for the past three years (3/09, 9/09, 11/09, 5/10, 2/11, 4/11), to accurately reflect the "maximum" data, the sample frequencies, and the sample type. In addition, the software has been adjusted to reflect the appropriate number of decimal places for copper and iron to agree with the analytical results below the 1.0 rounding thresholds. Finally, TVA is in the process of reviewing DMRs for any additional software errors.

TVA submitted a written notification to the Chattanooga Environmental Field Office on June 20, 2011, describing the releases to the Intake Forebay that were discovered on June 16, 2011. The attached description provides the details of the event, including updates not available at the time of the initial written submittal.



Ms. Dana Waits  
Page 2  
July 13, 2011

At approximately 11:35 EST on June 29, 2011, WBN personnel discovered a small stream of sanitary wastewater flowing across the floor from the basement lift station into the turbine building station sump (TBSS). It was estimated that at most 100 gallons reached the nearly 58,000-gallon sump. The TBSS was immediately isolated to prevent mixing in the treatment ponds. Flow into the sewage injector tank was also immediately isolated. WBN began pumping the TBSS to Spring City's Publicly Owned Treatment Works (POTW) and temporary storage tanks to remove this wastewater from TBSS discharge. The sanitary wastewater was effectively removed by feeding and bleeding greater than five times the volume of the TBSS to the POTW, an accepted engineering method for effectively removing contaminants. This was confirmed through bacterial analysis prior to returning the TBSS to normal operation. The cause was determined to be failure of the two sewage ejector pumps. At this time, one pump has been returned to service and the second is currently in the process of being repaired. It should be noted that one pump is capable of meeting normal system demands. TVA believes that WBN's timely actions were appropriate in preventing environmental impact to the receiving stream. This issue is still under review by the site corrective action program. Based upon the results of the review next month corrective actions to prevent recurrence will be implemented. WBN will update the Division as these actions are determined. As an interim action, WBN has increased visual monitoring of the sewer ejector tank and flow into the sewage injector tank will remain isolated until a corrective action is implemented.

Should you have any questions or need additional information, please contact me at (423) 365-8767 or Jerri Phillips at (423) 365-3576 in Spring City.

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

Sincerely,



Don E. Grissette  
Vice President  
Watts Bar Nuclear Plant

Enclosures

cc: Dr. Dick Urban  
Chattanooga Environmental Field Office  
Division of Water Pollution Control  
State Office Building, Suite 550  
540 McCallie Avenue  
Chattanooga, Tennessee 37402-2013

**TVA WATTS BAR NUCLEAR PLANT (WBN)  
NPDES PERMIT NO. TN0020168  
RELEASES TO INTAKE FOREBAY**

**Description of the Leak and Determination of Cause:**

On June 16, 2011 at 13:09 EST, WBN personnel noticed a small stream of water releasing over a trough on the outside of the Intake Pumping Station (IPS) and entering the Intake Forebay. The water was determined to be raw water treated with sodium hypochlorite and Flogard MS6237, a zinc chloride and phosphoric acid mixture. These chemicals are injected into plant systems per the WBN Biocide Corrosion Treatment Plan (BCTP). The chemical feeds were terminated at 13:20 EST (sodium hypochlorite) and 14:00 EST (Flogard MS6237). The water release from the trough was terminated at 14:30 EST. Samples in the Intake at the release were collected for total residual chlorine (TRC), pH, total phosphorus, and total zinc. TRC collected at 15:18 was initially 0.19 mg/L and decreased to less than <0.05 mg/L by 18:57 EST. The Daily Maximum Calculation for TRC was determined to be <0.09 mg/L. pH collected at 14:52 EST at the same location was 7.2 s.u. The total zinc sample collected at 14:45 EST at the same location was determined to be 1.05 mg/L, which is above the total zinc limit of 0.2 mg/L specified in the BCTP for the discharge from Outfall 101 during treatment cycles. The total phosphorous sample was later invalidated during the quality assurance review due to preservative addition past the time specified in the analysis method procedure.

The cause of this event was determined to be an obstruction from vegetation in the trough that blocked the flow from the Essential Raw Cooling Water (ERCW) strainers, causing the water flow to release over the side of the trough. The trough is located approximately three quarters of the way up the south wall of the IPS and runs the entire length of the south side of the building. It directs water from the ERCW strainer and traveling water screen backwash to the Yard Holding Pond which discharges to the Tennessee River via NPDES Outfall 101.

At 14:35 EST soon after the trough release was terminated, WBN personnel then noticed a release from a broken pipe on the same outer wall outside of the IPS with water entering the Intake Forebay. It was determined that this water was treated with Flogard MS6237. WBN personnel terminated the A and B Corrosion Control Chemical Dilution Water Supply to stop the flow from the broken pipe at 16:05 EST on June 16, 2011.

At no time was there a threat to public drinking supplies, to human health, or the environment. Furthermore, the locations of the releases are in close proximity of the plant intake and would likely be drawn through the IPS for plant use and discharged through permitted outfalls. TVA biologists surveyed by boat the Intake Forebay and downstream of the diffusers the evening of June 16, 2011. No fish distress, fish mortality, or abnormal bird migration was observed.

**Period of Release:**

The trough release was initially discovered on June 16, 2011 at 13:09 EST and was terminated at 14:30 EST on June 16, 2011. The broken pipe release was initially discovered on June 16, 2011 at 14:35 EST and was terminated at 16:05 EST on June 16, 2011. It is unknown when the releases began.

## **INTAKE PUMPING STATION RELEASES**

**Page 2**

### **Steps Being Taken to Reduce, Eliminate, and Prevent Recurrence:**

WBN has documented the release in the TVA Corrective Action Program and is in the process of determining corrective actions to reduce and prevent recurrence of these releases.

Immediate actions were to terminate sodium hypochlorite and Flogard MS6237 chemical injections. Although a splash guard was added to the trough in 2010 to prevent a trough overflow, the obstruction from vegetation prevented the splash guard from working effectively. The vegetation was removed at 19:00 EST on June 16, 2011. The trough capacity was then tested with maximum raw (untreated) water flow (e.g. three screen wash pumps in service) with no issues observed.

Repair is in progress for the broken pipe. After repair, validation of the repair will be conducted with raw water flow prior to the use of any treatment chemicals. Inspections of other IPS chemical feed piping have been performed and repairs/modifications will be completed as necessary. In the interim, increased visual inspections will take place during IPS chemical treatments.

NAME TVA - Watts Bar Nuclear Plant  
 Address 1260 Hwy 68, Nuclear Plant Rd.  
 Spring City, TN 37381  
 FACILITY TVA - Watts Bar Nuclear Plant  
 LOCATION Rhea County, Tennessee  
 Attn: Ms. Jerri L. Phillips

TNG670347  
 PERMIT NUMBER

101 G  
 DISCHARGE NUMBER


COVERAGE TERM:  
 06-APR-11 TO 01-APR-13

MONITORING PERIOD						
YEAR	MON	DAY	To	YEAR	MON	DAY
2011	06	01		2011	06	30

**NEW VESSELS OR EQUIPMENT**

NOTE: Read instructions before completing this form.

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			
FLOW, Total * 50050 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	500 gals	(03)	*****	*****	*****	****	0	01/DS	EST
	PERMIT REQUIREMENT	DISCHARGE PER DAY, Total			*****	*****	*****	****			
VISIBLE OIL 84066 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	0	*****	(9P)	*****	*****	*****	****	0	01/DS	VIS
	PERMIT REQUIREMENT	REPORT	*****	YES=1 NO=0	*****	*****	*****	****			
	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  D.E Grissette Site Vice President	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	 Site Vice President	TELEPHONE		DATE		
			423	365-8767	11	07	01
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)  
 \* Report total volume discharged for the flow parameter.

CHECK HERE IF THIS IS A ONE TIME DISCHARGE AND YOU REQUEST TERMINATION OF YOUR PERMIT.

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

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

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

MAJOR  
 SUBR 01  
 F - FINAL  
 DIFFUSER DISCHARGE  
 EFFLUENT

Form Approved.  
 OMB No. 2040-0004

**TN0020168**      **101 G**  
 PERMIT NUMBER      DISCHARGE NUMBER


MONITORING PERIOD  
 From **11 06 01** To **11 06 30**

\*\*\* NO DISCHARGE  \*\*\*

Attn: Darrin J. Hutchison, Chem/Environmental Mgr

NOTE: Read instructions before completing this form.

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 00010 1 0 0	SAMPLE MEASUREMENT	*****	*****	**	*****	*****	33	04	0	30 / 30	RCORDR
EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	***	*****	*****	<b>35 DAILY MX</b>	DEG. C.		CONTINUOUS	RCORDR
PH 00400 1 0 0	SAMPLE MEASUREMENT	*****	*****	**	8.0	*****	8.1	12	0	3 / 30	GRAB
EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	***	<b>6.0 MINIMUM</b>	*****	<b>9.0 MAXIMUM</b>	SU		TWICE/MONTH	GRAB
SOLIDS, TOTAL SUSPENDED 00530 1 0 0	SAMPLE MEASUREMENT	*****	*****	**	*****	12.0	12.0	19	0	1 / 30	GRAB
EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	***	*****	<b>30.0 MO AVG</b>	<b>100.0 DAILY MX</b>	MG/L		ONCE/MONTH	GRAB
OIL AND GREASE 00556 1 0 0	SAMPLE MEASUREMENT	*****	*****	**	*****	<5.6	<5.6	19	0	1 / 30	GRAB
EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	***	*****	<b>15.0 MO AVG</b>	<b>20.0 DAILY MX</b>	MG/L		ONCE/MONTH	GRAB
CHROMIUM, TOTAL (AS CR) 01034 1 0 0	SAMPLE MEASUREMENT	*****	*****	**	*****	Monitoring Not Required	Monitoring Not Required	19			
EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	***	*****	<b>2 MO AVG</b>	<b>2 DAILY MX</b>	MG/L		WAIVED	GRAB
ZINC, TOTAL (AS ZN) 01092 1 0 0	SAMPLE MEASUREMENT	*****	*****	**	*****	0.02	0.02	19	0	2 / 30	GRAB
EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	***	*****	<b>1.0 MO AVG</b>	<b>1.0 DAILY MX</b>	MG/L		TWICE/MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 0	SAMPLE MEASUREMENT	38.193	76.315	03	*****	*****	*****	**	0	30 / 30	RCORDR
EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	<b>Req. Mon. MO AVG</b>	<b>Req. Mon. DAILY MX</b>	MGD	*****	*****	*****	***		CONTINUOUS	RCORDR

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  D. E. Grissette  SITE VICE PRESIDENT  TYPED OR PRINTED	I Certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	 Site Vice President SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE		DATE		
			423	365-8767	11	07	13
			AREA CODE	NUMBER	YEAR	MO	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)  
 Instream flow of >3500 cfs present as required by permit. Avg MRZ temp=23.46 degrees C. Raw water chemicals injected: NaOCl (<0.1 mg/L), Towerbrom (<0.1 mg/L), Flogard MS6237 (<0.2 mg/L), CT1300 (<0.05 mg/L), & Bentonite Clay. Cover letter contains details of IPS Releases on 6/16: Zn 1.05 mg/L; P results invalidated during the quality assurance review.

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

Name **TVA - WATTS BAR NUCLEAR PLANT**  
 Address **P.O. BOX 2000**  
 (INTEROFFICE MOB1F)  
**SPRING CITY, TN 37381**  
 Facility **TVA - WATTS BAR NUCLEAR PLANT**  
 Location **RHEA COUNTY**

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

**TN0020168**      **101 G**  
 PERMIT NUMBER      DISCHARGE NUMBER

MAJOR  
 SUBR 01  
 F - FINAL  
 DIFFUSER DISCHARGE  
 EFFLUENT

Form Approved.  
 OMB No. 2040-0004


MONITORING PERIOD  
 From **11 06 01** To **11 06 30**

\*\*\* NO DISCHARGE  \*\*\*

Attn: Darrin J. Hutchison, Chem/Environmental Mgr

NOTE: Read instructions before completing this form.

PARAMETER	SAMPLE MEASUREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT	*****	*****	**	*****	<0.05	<0.05	19	0	28/30 22 JUP	GRAB
50060 1 0 0	PERMIT REQUIREMENT	*****	*****	***	*****	0.10 MO AVG	0.10 DAILY MX	MG/L		WEEK-DAYS	GRAB
EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	YES	94	*****	*****	*****	**	0	1/30	OPRCRD
DISCHARGE EVENT OBSERVATION	PERMIT REQUIREMENT	*****	REPORT YES/NO	Y=1;N=0	*****	*****	*****	***		ONCE/MONTH	OPRCRD
84165 1 0 0	SAMPLE MEASUREMENT										
Instream Flo > 3500 CFS	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  D. E. Grissette  SITE VICE PRESIDENT  TYPED OR PRINTED	I Certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	 Site Vice President	TELEPHONE		DATE		
			423	365-8767	11	07	13
		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)  
 Instream flow of > 3500 cfs present as required by the permit. Chlorination was in service for 20 days during the month of June. Cover letter contains details of IPS Releases on 6/16: Zn 1.05 mg/L; P results invalidated during the quality assurance review.

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)  
 Name **TVA - WATTS BAR NUCLEAR PLANT**  
 Address **P.O. BOX 2000**  
 (INTEROFFICE MOB1F)  
**SPRING CITY, TN 37381**  
 Facility **TVA - WATTS BAR NUCLEAR PLANT**  
 Location **RHEA COUNTY**

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

MAJOR  
 SUBR 01  
 F - FINAL  
 BIOMONITORING FOR OUTFALL 101  
 EFFLUENT

Form Approved.  
 OMB No. 2040-0004

**TN0020168**      **101 T**  
 PERMIT NUMBER      DISCHARGE NUMBER

MONITORING PERIOD  
 From 

YEAR	MO	DAY
11	06	01

 To 

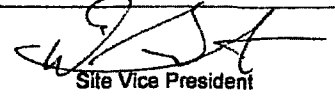
YEAR	MO	DAY
11	06	30

\*\*\* NO DISCHARGE  \*\*\*

Attn: Darrin J. Hutchison, Chem/Environmental Mgr

NOTE: Read instructions before completing this form.

PARAMETER	X	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
IC25 STATRE 7DAY CHR CERIODAPHNIA	SAMPLE MEASUREMENT	*****	*****	**	Monitoring Not Required	*****	*****	23			
TRP3B 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	***	33 MINIMUM	*****	*****	PERCENT		SEMI-ANNUAL	COMPOS
IC25 STATRE 7DAY CHR PIMEPHALES	SAMPLE MEASUREMENT	*****	*****	**	Monitoring Not Required	*****	*****	23			
TRP6C 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	***	33 MINIMUM	*****	*****	PERCENT		SEMI-ANNUAL	COMPOS
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  D. E. Grissette  SITE VICE PRESIDENT  TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	 Site Vice President SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE		DATE		
			423	365-8767	11	07	13
			AREA CODE	NUMBER	YEAR	MO	DAY

COMMENTS 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 MOB1F)  
**SPRING CITY, TN 37381**  
 Facility **TVA - WATTS BAR NUCLEAR PLANT**  
 Location **RHEA COUNTY**

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

MAJOR SUBR 01  
 F - FINAL  
 YD HLDING POND EMERG OVERFLW WEIR  
 EFFLUENT

Form Approved.  
 OMB No. 2040-0004

**TN0020168**  
 PERMIT NUMBER

**102 G**  
 DISCHARGE NUMBER

MONITORING PERIOD


YEAR	MO	DAY	YEAR	MO	DAY	
11	06	01	To	11	06	30

\*\*\* NO DISCHARGE  \*\*\*

Attn: Darrin J. Hutchison, Chem/Environmental Mgr

NOTE: Read instructions before completing this form.

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 00010 1 0 0	SAMPLE MEASUREMENT	*****	*****	**	*****	*****		04			
EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	***	*****	*****	<b>35 DAILY MX</b>	DEG. C.		DAILY	GRAB
PH 00400 1 0 0	SAMPLE MEASUREMENT	*****	*****	**		*****		12			
EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	***	<b>6.0 MINIMUM</b>	*****	<b>9.0 MAXIMUM</b>	SU		WEEKLY	GRAB
SOLIDS, TOTAL SUSPENDED 00530 1 0 0	SAMPLE MEASUREMENT	*****	*****	**	*****			19			
EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	***	*****	<b>30.0 MO AVG</b>	<b>100.0 DAILY MX</b>	MGL		WEEKLY	GRAB
OIL AND GREASE 00556 1 0 0	SAMPLE MEASUREMENT	*****	*****	**	*****			19			
EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	***	*****	<b>15.0 MO AVG</b>	<b>20.0 DAILY MX</b>	MGL		WEEKLY	GRAB
CHROMIUM, TOTAL (AS CR) 01034 1 0 0	SAMPLE MEASUREMENT	*****	*****	**	*****			19			
EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	***	*****	<b>2 MO AVG</b>	<b>2 DAILY MX</b>	MGL		WAIVED	GRAB
ZINC, TOTAL (AS ZN) 01092 1 0 0	SAMPLE MEASUREMENT	*****	*****	**	*****			19			
EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	***	*****	<b>1.0 MO AVG</b>	<b>1.0 DAILY MX</b>	MGL		2/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 0	SAMPLE MEASUREMENT			03	*****	*****	*****	**			
EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	<b>REPORT MO AVG</b>	<b>REPORT DAILY MX</b>	MGD	*****	*****	*****	***		DAILY	INSTAN

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  D. E. Grissette  SITE VICE PRESIDENT  TYPED OR PRINTED	I Certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	 Site Vice President	TELEPHONE		DATE		
			423	365-8767	11	07	13
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT			AREA CODE	NUMBER	YEAR	MO	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)  
 No discharge this period.



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

Name **TVA - WATTS BAR NUCLEAR PLANT**  
 Address **P.O. BOX 2000**  
 (INTEROFFICE MOB1F)  
**SPRING CITY, TN 37381**  
 Facility **TVA - WATTS BAR NUCLEAR PLANT**  
 Location **RHEA COUNTY**

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

MAJOR  
 SUBR 01  
 F - FINAL

Form Approved.  
 OMB No. 2040-0004

**TN0020168** **102 G**  
 PERMIT NUMBER DISCHARGE NUMBER

MONITORING PERIOD						
YEAR	MO	DAY	YEAR	MO	DAY	
11	06	01	To	11	06	30


Attn: Darrin J. Hutchison, Chem/Environmental Mgr

YD HLDING POND EMERG OVERFLW WEIR  
 EFFLUENT

\*\*\* NO DISCHARGE  \*\*\*

NOTE: Read instructions before completing this form.

PARAMETER	SAMPLE MEASUREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT	*****	*****	**	*****						
50060 1 0 0	PERMIT REQUIREMENT	*****	*****	***	*****	0.10 MO AVG	0.10 DAILY MX	MG/L		WEEK-DAYS	GRAB
DISCHARGE EVENT OBSERVATION	SAMPLE MEASUREMENT	*****		94	*****	*****	*****	**			
84165 1 0 0	PERMIT REQUIREMENT	*****	REPORT YES/NO	Y=1;N=0	*****	*****	*****	***		ONCE/MONTH	ORRGRD
Instrm Flo > 3500 CFS	SAMPLE MEASUREMENT	GERT.									
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  D. E. Grissette  SITE VICE PRESIDENT  TYPED OR PRINTED	I Certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	 Site Vice President	TELEPHONE		DATE		
			423	365-8767	11	07	13
		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)  
 No discharge this period.

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

Name **TVA - WATTS BAR NUCLEAR PLANT**  
 Address **P.O. BOX 2000**  
 (INTEROFFICE MOB1F)  
**SPRING CITY, TN 37381**  
 Facility **TVA - WATTS BAR NUCLEAR PLANT**  
 Location **RHEA COUNTY**

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

MAJOR

SUBR 01

F - FINAL

BIOMONITORING FOR OUTFALL 102

EFFLUENT

Form Approved.  
 OMB No. 2040-0004

**TN0020168**      **102 T**  
 PERMIT NUMBER      DISCHARGE NUMBER


MONITORING PERIOD  
 From **11 06 01** To **11 06 30**

\*\*\* NO DISCHARGE  \*\*\*

NOTE: Read instructions before completing this form.

Attn: Darrin J. Hutchison, Chem/Environmental Mgr

PARAMETER	X	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
IC25 STATRE 7DAY CHR CERIODAPHNIA	SAMPLE MEASUREMENT	*****	*****	**		*****	*****	23			
TRP3B 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	***	<b>3:3 MINIMUM</b>	*****	*****	PERCENT		SEMI-ANNUAL	COMPOS
IC25 STATRE 7DAY CHR PIMEPHALES	SAMPLE MEASUREMENT	*****	*****	**		*****	*****	23			
TRP6C 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	***	<b>3:3 MINIMUM</b>	*****	*****	PERCENT		SEMI-ANNUAL	COMPOS
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  <b>D. E. Grissette</b>  SITE VICE PRESIDENT  TYPED OR PRINTED	I Certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations	 Site Vice President SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE		DATE		
			423	365-8767	11	07	13
			AREA CODE	NUMBER	YEAR	MO	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)  
 No Discharge this Period

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

Name **TVA - WATTS BAR NUCLEAR PLANT**  
 Address **P.O. BOX 2000**  
 (INTEROFFICE MOB1F)  
**SPRING CITY, TN 37381**  
 Facility **TVA - WATTS BAR NUCLEAR PLANT**  
 Location **RHEA COUNTY**

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

MAJOR

SUBR 01

F - FINAL

LOW VOL. WASTE TREATMENT POND

EFFLUENT

Form Approved.  
 OMB No. 2040-0004

**TN0020168**  
 PERMIT NUMBER

**103 G**  
 DISCHARGE NUMBER


MONITORING PERIOD						
YEAR	MO	DAY	YEAR	MO	DAY	
11	06	01	To	11	06	30

\*\*\* NO DISCHARGE  \*\*\*

NOTE: Read instructions before completing this form.

Attn: Darrin J. Hutchison, Chem/Environmental Mgr

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	*****	*****	..	8.6	*****	8.6	12	0	1 / 30	GRAB
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	****	6.0 MINIMUM	*****	9.0 MAXIMUM	SU		ONCE/MONTH	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	*****	*****	..	*****	7.5	7.5	19	0	1 / 30	GRAB
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	****	*****	30.0 MO AVG	100.0 DAILY MX	MG/L		ONCE/MONTH	GRAB
OIL AND GREASE	SAMPLE MEASUREMENT	*****	*****	..	*****	<5.6	<5.6	19	0	1 / 30	GRAB
00556 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	****	*****	15.0 MO AVG	20.0 DAILY MX	MG/L		ONCE/MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.114	0.547	03	*****	*****	*****	..	0	30 / 30	RCORDR
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	Req. Mon MO AVG	Req. Mon DAILY MX	MGD	*****	*****	*****	****		CONTIN UOUS	RCORDR
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  D. E. Grissette  SITE VICE PRESIDENT  TYPED OR PRINTED	I Certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	 Site Vice President	TELEPHONE		DATE		
			423	365-8767	11	07	13
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT			AREA CODE	NUMBER	YEAR	MO	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)  
 Discharged Low Volume Waste Treatment Pond 9 days in June.

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

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

MAJOR

Form Approved.  
OMB No. 2040-0004

Name **TVA - WATTS BAR NUCLEAR PLANT**  
Address **P.O. BOX 2000**  
**(INTEROFFICE MOB1F)**  
**SPRING CITY, TN 37381**  
Facility **TVA - WATTS BAR NUCLEAR PLANT**  
Location **RHEA COUNTY**

**TN0020168** **107 G**  
PERMIT NUMBER DISCHARGE NUMBER

SUBR 01  
F - FINAL  
METAL CLEANING WASTE POND  
EFFLUENT


MONITORING PERIOD						
YEAR	MO	DAY	YEAR	MO	DAY	
11	06	01	To	11	06	30

\*\*\* NO DISCHARGE  \*\*\*

Attn: Darrin J. Hutchison, Chem/Environmental Mgr

NOTE: Read instructions before completing this form.

PARAMETER	SAMPLE MEASUREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
PH		*****	*****	**		*****			12		
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	****	Req. Mon MINIMUM	*****	Req. Mon. MAXIMUM	SU		ONCE/ BATCH	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	*****	*****	26	*****			19			
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*****	*****	30.0 MO AVG	30.0 DAILY MX	MG/L		ONCE/ BATCH	GRAB
OIL AND GREASE	SAMPLE MEASUREMENT	*****	*****	26	*****			19			
00556 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*****	*****	15.0 MO AVG	15.0 DAILY MX	MG/L		ONCE/ BATCH	GRAB
PHOSPHORUS, TOTAL (AS P)	SAMPLE MEASUREMENT	*****	*****	**	*****			19			
00665 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	**	*****	1.0 MO AVG	1.0 DAILY MX	MG/L		ONCE/ BATCH	GRAB
COPPER, TOTAL (AS CU)	SAMPLE MEASUREMENT	*****	*****	**	*****			19			
01042 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	****	*****	1.0 MO AVG	1.0 DAILY MX	MG/L		ONCE/ BATCH	GRAB
IRON, TOTAL (AS FE)	SAMPLE MEASUREMENT	*****	*****	**	*****			19			
01045 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	****	*****	1.0 MO AVG	1.0 DAILY MX	MG/L		ONCE/ BATCH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT			03	*****	*****	*****	**			
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	Req. Mon MO AVG	Req. Mon DAILY MX	MGD	*****	*****	*****	***		ONCE/ 24 hrs	CALCTD

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  D. E. Grissette  SITE VICE PRESIDENT  TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	 Site Vice President SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE		DATE		
			423	365-8767	11	07	13
			AREA CODE	NUMBER	YEAR	MO	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)  
No discharge this period.

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

Name **TVA - WATTS BAR NUCLEAR PLANT**  
 Address **P.O. BOX 2000**  
**(INTEROFFICE MOB1F)**  
**SPRING CITY, TN 37381**  
 Facility **TVA - WATTS BAR NUCLEAR PLANT**  
 Location **RHEA COUNTY**

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

**TN0020168**      **113 G**  
 PERMIT NUMBER      DISCHARGE NUMBER

MAJOR  
 SUBR 01  
 F - FINAL  
 SCCW DISCHARGE  
 EFFLUENT

Form Approved.  
 OMB No. 2040-0004

MONITORING PERIOD  
 From **11 06 01** To **11 06 30**

\*\*\* NO DISCHARGE  \*\*\*

NOTE: Read instructions before completing this form.

Attn: Darrin J. Hutchison, Chem/Environmental Mgr

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 00010 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	**	*****	*****	33	04	0	30 / 30	RCORDR
	PERMIT REQUIREMENT	*****	*****	***	*****	*****	Req. Mon. DAILY MX	DEG. C.		HOURLY	RCORDR
TEMPERATURE, WATER DEG. CENTIGRADE 00010 P 0 0 Temp, Receiving Stream Btm	SAMPLE MEASUREMENT	*****	*****	**	*****	*****	28.1	04	0	30 / 30	RCORDR
	PERMIT REQUIREMENT	*****	*****	***	*****	*****	33.5 DAILY MX	DEG C		HOURLY	RCORDR
TEMPERATURE, WATER DEG. CENTIGRADE 00010 Z 0 0 Instream Edge of Mixing Zone	SAMPLE MEASUREMENT	*****	*****	**	*****	*****	26.2	04	0	30 / 30	RCORDR
	PERMIT REQUIREMENT	*****	*****	***	*****	*****	30.5 DAILY MX	DEG. C.		HOURLY	RCORDR
TEMP. DIFF. BETWEEN SAMP. & UPSTRM DEG.C 00016 Z 0 0 Temp, Rise UpStrm to DnStrm	SAMPLE MEASUREMENT	*****	*****	**	*****	*****	1	04	0	30 / 30	CALCTD
	PERMIT REQUIREMENT	*****	*****	***	*****	*****	3 DAILY MX	DEG. C.		HOURLY	CALCTD
OXYGEN, DISSOLVED (DO) 00300 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	**	7.4	*****	*****	19	0	1 / 30	GRAB
	PERMIT REQUIREMENT	*****	*****	***	Req. Mon DAILY MN	*****	*****	MG/L		ONCE/ MONTH	GRAB
PH 00400 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	**	8.2	*****	8.2	12	0	1 / 30	GRAB
	PERMIT REQUIREMENT	*****	*****	***	6.0 MINIMUM	*****	9.0 MAXIMUM	SU		ONCE/ MONTH	GRAB
SOLIDS, TOTAL SUSPENDED 00530 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	**	*****	5.6	5.6	19	0	1 / 30	GRAB
	PERMIT REQUIREMENT	*****	*****	***	*****	30.0 MO AVG	100.0 DAILY MX	MG/L		ONCE/ MONTH	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	TELEPHONE		DATE		
D. E. Grissette		423 365-8767	11	07	13	
SITE VICE PRESIDENT						
TYPED OR PRINTED		AREA CODE	NUMBER	YEAR	MO	DAY

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

Instream flow of > 3500 cfs present as required by the permit. The average MRZ temperature was 23.46 degrees Celsius. WBN injected the following raw water chemicals: NaOCl (<0.1 mg/L), Towerbrom (<0.1 mg/L), Flogard MS6237 (<0.2 mg/L), CT1300 (<0.05 mg/L), and Bentonite Clay.

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

Name **TVA - WATTS BAR NUCLEAR PLANT**  
 Address **P.O. BOX 2000**  
 (INTEROFFICE MOB1F)  
**SPRING CITY, TN 37381**  
 Facility **TVA - WATTS BAR NUCLEAR PLANT**  
 Location **RHEA COUNTY**

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

MAJOR  
 SUBR 01  
 F - FINAL  
 SCCW DISCHARGE  
 EFFLUENT

Form Approved.  
 OMB No. 2040-0004

**TN0020168**  
 PERMIT NUMBER

**113 G**  
 DISCHARGE NUMBER


MONITORING PERIOD  
 From **11 06 01** To **11 06 30**

\*\*\* NO DISCHARGE  \*\*\*

NOTE: Read instructions before completing this form.

Attn: Darrin J. Hutchison, Chem/Environmental Mgr

PARAMETER	SAMPLE MEASUREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 0 EFFLUENT GROSS VALUE	189.657	201.204	03	*****	*****	*****	**	0	30 / 30	RCORDR	
	PERMIT REQUIREMENT	Req. Mon MO AVG	Req. Mon. DAILY MX	MGD	*****	*****	*****	***		CONTINUOUS	
CHLORINE, TOTAL RESIDUAL 50060 1 0 0 EFFLUENT GROSS VALUE	*****	*****	**	*****	<0.05	<0.05	19	0	28 / 30 28 JLP 7/13/11	GRAB	
	PERMIT REQUIREMENT	*****	*****	***	*****	0.092 MO AVG	0.158 DAILY MX	MG/L		WEEK-DAYS	
TEMPERATURE - C, RATE OF CHANGE 82234 2 0 0 Temp, Rate of Chng DnStrm	*****	1	62	*****	*****	*****	**	0	30 / 30	CALCTD	
	PERMIT REQUIREMENT	*****	2 DAILY MX	DEG. C.	*****	*****	*****	***		HOURLY	
DISCHARGE EVENT OBSERVATION 84165 1 0 0 EFFLUENT GROSS VALUE	*****	YES	94	*****	*****	*****	**	0	1 / 30	RCORDR	
	PERMIT REQUIREMENT	*****	Reg. Mon. TOTAL	Y=1;N=0	*****	*****	*****	***		ONCE/MONTH	
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  D. E. Grissetta  SITE VICE PRESIDENT  TYPED OR PRINTED	Certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	 Site Vice President SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE		DATE		
			AREA CODE	NUMBER	YEAR	MO	DAY
			423	365-8767	11	07	13

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

Instream flow of > 3500 cfs present as required by the permit. The average MRZ temperature was 23.46 degrees Celsius. WBN injected the following raw water chemicals: NaOCl (<0.1 mg/L), Towerbrom (<0.1 mg/L), Flogard MS6237 (<0.2 mg/L), CT1300 (<0.05 mg/L), and Bentonite Clay.

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)  
 Name **TVA - WATTS BAR NUCLEAR PLANT**  
 Address **P.O. BOX 2000**  
 (INTEROFFICE MOB1F)  
**SPRING CITY, TN 37381**  
 Facility **TVA - WATTS BAR NUCLEAR PLANT**  
 Location **RHEA COUNTY**

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

MAJOR  
 SUBR 01  
 F - FINAL

Form Approved.  
 OMB No. 2040-0004

**TN0020168**  
 PERMIT NUMBER

**113 T**  
 DISCHARGE NUMBER

MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
11	06	01	11	06	30


Attn: Darrin J. Hutchison, Chem/Environmental Mgr

BIOMONITORING FOR OUTFALL 113  
 EFFLUENT

\*\*\* NO DISCHARGE  \*\*\*

NOTE: Read instructions before completing this form.

PARAMETER	SAMPLE MEASUREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
IC25 STATRE 7DAY CHR CERIODAPHNIA	SAMPLE MEASUREMENT	*****	*****	**	Monitoring Not Required	*****	*****	23			
TRP3B 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	***	8 MINIMUM	*****	*****	PERCENT		SEMI-ANNUAL	COMPOS
IC25 STATRE 7DAY CHR PIMEPHALES	SAMPLE MEASUREMENT	*****	*****	**	Monitoring Not Required	*****	*****	23			
TRP6C 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	***	8 MINIMUM	*****	*****	PERCENT		SEMI-ANNUAL	COMPOS
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  D. E. Grissette  SITE VICE PRESIDENT  TYPED OR PRINTED	Certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	 Site Vice President SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE		DATE		
			423	365-8767	11	07	13
			AREA CODE	NUMBER	YEAR	MO	DAY

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

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)  
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**SPRING CITY, TN 37381**  
 Facility **TVA - WATTS BAR NUCLEAR PLANT**  
 Location **RHEA COUNTY**

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

MAJOR  
 SUBR 01  
 F - FINAL

Form Approved.  
 OMB No. 2040-0004

**TN0020168**  
 PERMIT NUMBER

**107 G**  
 DISCHARGE NUMBER

MONITORING PERIOD

YEAR	MO	DAY	YEAR	MO	DAY
09	03	01	09	03	31


METAL CLEANING WASTE POND  
 EFFLUENT

\*\*\* NO DISCHARGE  \*\*\*

Attn: Darrin J. Hutchison, Chem/Environmental Mgr

NOTE: Read instructions before completing this form.

PARAMETER	SAMPLE MEASUREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
PH	SAMPLE MEASUREMENT	*****	*****	**	8.4	*****	8.4	12	0	2 / 31	GRAB
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	****	Req. Mon. MINIMUM	*****	Req. Mon. MAXIMUM	SU		ONCE/BATCH	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	*****	*****	26	*****	11.0	11.0	19	0	1 / 31	GRAB
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*****	*****	30.0 MO AVG	30.0 DAILY MX	MG/L		ONCE/BATCH	GRAB
OIL AND GREASE	SAMPLE MEASUREMENT	*****	*****	26	*****	<5.8	<5.9	19	0	1 / 31	GRAB
00556 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*****	*****	15.0 MO AVG	15.0 DAILY MX	MG/L		ONCE/BATCH	GRAB
PHOSPHORUS, TOTAL (AS P)	SAMPLE MEASUREMENT	*****	*****	**	*****	5.5	5.5	19	2	1 / 31	GRAB
00665 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	**	*****	1.0 MO AVG	1.0 DAILY MX	MG/L		ONCE/BATCH	GRAB
COPPER, TOTAL (AS CU)	SAMPLE MEASUREMENT	*****	*****	**	*****	0.0041	0.0041	19	0	1 / 31	GRAB
01042 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	****	*****	1.0 MO AVG	1.0 DAILY MX	MG/L		ONCE/BATCH	GRAB
IRON, TOTAL (AS FE)	SAMPLE MEASUREMENT	*****	*****	**	*****	0.1350	0.1350	19	0	1 / 31	GRAB
01045 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	****	*****	1.0 MO AVG	1.0 DAILY MX	MG/L		ONCE/BATCH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	2.550	2.550	03	*****	*****	*****	**	0	1 / 31	CALCTD
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	Req. Mon. MO AVG	Req. Mon. DAILY MX	MGD	*****	*****	*****	****		ONCE/24 hrs	CALCTD

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  D. E. Grissette  SITE VICE PRESIDENT  TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	 Site Vice President	TELEPHONE		DATE		
			423	365-8767	11	07	13
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT			AREA CODE	NUMBER	YEAR	MO	DAY

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

The effluent volume of 2.55 MG was released from ULP IMP 107 to the YHP which has a capacity of 40 MG. An engineering calculation yielded a worst-case estimate of 0.425 mg/L in the receiving stream thus ensuring the protection of water quality.



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**SPRING CITY, TN 37381**  
 Facility **TVA - WATTS BAR NUCLEAR PLANT**  
 Location **RHEA COUNTY**

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

MAJOR  
 SUBR 01  
 F - FINAL  
 METAL CLEANING WASTE POND  
 EFFLUENT

Form Approved.  
 OMB No. 2040-0004

**TN0020168**  
 PERMIT NUMBER

**107 G**  
 DISCHARGE NUMBER

MONITORING PERIOD

YEAR	MO	DAY	YEAR	MO	DAY
09	09	01	09	09	30


From To

\*\*\* NO DISCHARGE  \*\*\*

Attn: Darrin J. Hutchison, Chem/Environmental Mgr

NOTE: Read instructions before completing this form.

PARAMETER	SAMPLE MEASUREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
PH		*****	*****	**	7.2	*****	7.2	12	0	2 / 30	GRAB
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	***	Reg. Mon. MINIMUM	*****	Reg. Mon. MAXIMUM	SU		ONCE/BATCH	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	*****	*****	26	*****	6.9	6.9	19	0	1 / 30	GRAB
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*****	*****	30.0 MO AVG	30.0 DAILY MX	MG/L		ONCE/BATCH	GRAB
OIL AND GREASE	SAMPLE MEASUREMENT	*****	*****	26	*****	<5.0	<5.0	19	0	1 / 30	GRAB
00556 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*****	*****	15.0 MO AVG	15.0 DAILY MX	MG/L		ONCE/BATCH	GRAB
PHOSPHORUS, TOTAL (AS P)	SAMPLE MEASUREMENT	*****	*****	**	*****	0.5	0.5	19	0	1 / 30	GRAB
00665 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	**	*****	1.0 MO AVG	1.0 DAILY MX	MG/L		ONCE/BATCH	GRAB
COPPER, TOTAL (AS CU)	SAMPLE MEASUREMENT	*****	*****	**	*****	0.0023	0.0023	19	0	1 / 30	GRAB
01042 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	***	*****	1.0 MO AVG	1.0 DAILY MX	MG/L		ONCE/BATCH	GRAB
IRON, TOTAL (AS FE)	SAMPLE MEASUREMENT	*****	*****	**	*****	0.2400	0.2400	19	0	1 / 30	GRAB
01045 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	***	*****	1.0 MO AVG	1.0 DAILY MX	MG/L		ONCE/BATCH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	2.550	2.550	03	*****	*****	*****	**	0	1 / 30	CALCTD
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	Reg. Mon. MO AVG	Reg. Mon. DAILY MX	MGD	*****	*****	*****	***		ONCE/24 hrs	CALCTD

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  D. E. Grissette  SITE VICE PRESIDENT  TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	 Site Vice President SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE		DATE		
			423	365-8767	11	07	13
			AREA CODE	NUMBER	YEAR	MO	DAY

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

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

Name **TVA - WATTS BAR NUCLEAR PLANT**  
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 Location **RHEA COUNTY**

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

MAJOR

SUBR 01

F - FINAL

METAL CLEANING WASTE POND

EFFLUENT

Form Approved.  
 OMB No. 2040-0004

**TN0020168**      **107 G**  
 PERMIT NUMBER      DISCHARGE NUMBER


MONITORING PERIOD						
YEAR	MO	DAY	To	YEAR	MO	DAY
09	11	01		09	11	30

Attn: Darrin J. Hutchison, Chem/Environmental Mgr

\*\*\* NO DISCHARGE  \*\*\*

NOTE: Read instructions before completing this form.

PARAMETER	SAMPLE MEASUREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
PH		*****	*****	**	8.1	*****	8.2	12	0	2 / 30	GRAB
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	****	Req. Mon. MINIMUM	*****	Req. Mon. MAXIMUM	SU		ONCE/BATCH	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	*****	*****	26	*****	11.0	11.0	19	0	1 / 30	GRAB
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*****	*****	30.0 MO AVG	30.0 DAILY MX	MG/L		ONCE/BATCH	GRAB
OIL AND GREASE	SAMPLE MEASUREMENT	*****	*****	26	*****	<5.5	<5.6	19	0	1 / 30	GRAB
00556 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*****	*****	15.0 MO AVG	15.0 DAILY MX	MG/L		ONCE/BATCH	GRAB
PHOSPHORUS, TOTAL (AS P)	SAMPLE MEASUREMENT	*****	*****	**	*****	0.2	0.2	19	0	1 / 30	GRAB
00665 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	**	*****	1.0 MO AVG	1.0 DAILY MX	MG/L		ONCE/BATCH	GRAB
COPPER, TOTAL (AS CU)	SAMPLE MEASUREMENT	*****	*****	**	*****	0.0051	0.0051	19	0	1 / 30	GRAB
01042 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	****	*****	1.0 MO AVG	1.0 DAILY MX	MG/L		ONCE/BATCH	GRAB
IRON, TOTAL (AS FE)	SAMPLE MEASUREMENT	*****	*****	**	*****	0.3150	0.3150	19	0	1 / 30	GRAB
01045 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	****	*****	1.0 MO AVG	1.0 DAILY MX	MG/L		ONCE/BATCH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	2.600	2.600	03	*****	*****	*****	**	0	1 / 30	CALCTD
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	Req. Mon MO AVG	Req. Mon DAILY MX	MGD	*****	*****	*****	***		ONCE/24 hrs	CALCTD

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

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

Name **TVA - WATTS BAR NUCLEAR PLANT**  
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 Location **RHEA COUNTY**

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

MAJOR  
 SUBR 01  
 F - FINAL  
 METAL CLEANING WASTE POND  
 EFFLUENT

Form Approved.  
 OMB No. 2040-0004

**TN0020168**      **107 G**  
 PERMIT NUMBER      DISCHARGE NUMBER

MONITORING PERIOD  
 From 

YEAR	MO	DAY
10	05	01

 To 


YEAR	MO	DAY
10	05	31

\*\*\* NO DISCHARGE  \*\*\*

NOTE: Read instructions before completing this form.

Attn: Darrin J. Hutchison, Chem/Environmental Mgr

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	*****	*****	**	8.1	*****	8.1	12	0	2 / 31	GRAB
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	***	Req. Mon. MINIMUM	*****	Req. Mon. MAXIMUM	SU		ONCE/BATCH	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	*****	*****	28	*****	9.6	9.6	19	0	1 / 31	GRAB
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*****	*****	30.0 MO AVG	30.0 DAILY MX	MG/L		ONCE/BATCH	GRAB
OIL AND GREASE	SAMPLE MEASUREMENT	*****	*****	28	*****	<5.6	<5.6	19	0	1 / 31	GRAB
00556 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*****	*****	15.0 MO AVG	15.0 DAILY MX	MG/L		ONCE/BATCH	GRAB
PHOSPHORUS, TOTAL (AS P)	SAMPLE MEASUREMENT	*****	*****	**	*****	0.3	0.3	19	0	1 / 31	GRAB
00665 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	**	*****	1.0 MO AVG	1.0 DAILY MX	MG/L		ONCE/BATCH	GRAB
COPPER, TOTAL (AS CU)	SAMPLE MEASUREMENT	*****	*****	**	*****	0.0017	0.0017	19	0	1 / 31	GRAB
01042 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	***	*****	1.0 MO AVG	1.0 DAILY MX	MG/L		ONCE/BATCH	GRAB
IRON, TOTAL (AS FE)	SAMPLE MEASUREMENT	*****	*****	**	*****	0.3200	0.3200	19	0	1 / 31	GRAB
01045 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	***	*****	1.0 MO AVG	1.0 DAILY MX	MG/L		ONCE/BATCH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	1.700	1.700	03	*****	*****	*****	**	0	1 / 31	CALCTD
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	Req. Mon MO AVG	Req. Mon DAILY MX	MGD	*****	*****	*****	***		ONCE/ 24 hrs	CALCTD

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  D. E. Grissette  SITE VICE PRESIDENT  TYPED OR PRINTED	I Certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	 Site Vice President	TELEPHONE		DATE		
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SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT			AREA CODE	NUMBER	YEAR	MO	DAY

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

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

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

MAJOR

Form Approved.  
OMB No. 2040-0004

Name **TVA - WATTS BAR NUCLEAR PLANT**  
Address **P.O. BOX 2000**  
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**SPRING CITY, TN 37381**  
Facility **TVA - WATTS BAR NUCLEAR PLANT**  
Location **RHEA COUNTY**

**TN0020168** **107 G**  
PERMIT NUMBER DISCHARGE NUMBER

SUBR 01  
F - FINAL  
METAL CLEANING WASTE POND  
EFFLUENT

MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
11	02	01	11	02	28

Attn: Darrin J. Hutchison, Chem/Environmental Mgr


From

To

\*\*\* NO DISCHARGE  \*\*\*

NOTE: Read instructions before completing this form.

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			
PH	SAMPLE MEASUREMENT	*****	*****	**	7.9	*****	7.9	12	0	2 / 28	GRAB
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	***	Req. Mon. MINIMUM	*****	Req. Mon. MAXIMUM	SU		ONCE/BATCH	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	*****	*****	26	*****	15.0	15.0	19	0	1 / 28	GRAB
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*****	*****	30.0 MO AVG	30.0 DAILY MX	MG/L		ONCE/BATCH	GRAB
OIL AND GREASE	SAMPLE MEASUREMENT	*****	*****	26	*****	<5.3	<5.3	19	0	1 / 28	GRAB
00556 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*****	*****	15.0 MO AVG	15.0 DAILY MX	MG/L		ONCE/BATCH	GRAB
PHOSPHORUS, TOTAL (AS P)	SAMPLE MEASUREMENT	*****	*****	**	*****	0.3	0.3	19	0	1 / 28	GRAB
00665 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	**	*****	1.0 MO AVG	1.0 DAILY MX	MG/L		ONCE/BATCH	GRAB
COPPER, TOTAL (AS CU)	SAMPLE MEASUREMENT	*****	*****	**	*****	0.0050	0.0050	19	0	1 / 28	GRAB
01042 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	***	*****	1.0 MO AVG	1.0 DAILY MX	MG/L		ONCE/BATCH	GRAB
IRON, TOTAL (AS FE)	SAMPLE MEASUREMENT	*****	*****	**	*****	0.1800	0.1800	19	0	1 / 28	GRAB
01045 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	***	*****	1.0 MO AVG	1.0 DAILY MX	MG/L		ONCE/BATCH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	1.300	1.300	03	*****	*****	*****	**	0	1 / 28	CALCTD
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	Req. Mon MO AVG	Req. Mon DAILY MX	MGD	*****	*****	*****	***		ONCE/24 hrs	CALCTD

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER <b>D. E. Grissette</b> SITE VICE PRESIDENT TYPED OR PRINTED	I Certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	 Site Vice President SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE		DATE		
			423	365-8767	11	07	13
			AREA CODE	NUMBER	YEAR	MO	DAY

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

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

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

MAJOR

Form Approved.  
OMB No. 2040-0004

Name TVA - WATTS BAR NUCLEAR PLANT  
Address P.O. BOX 2000  
(INTEROFFICE MOB1F)  
SPRING CITY, TN 37381  
Facility TVA - WATTS BAR NUCLEAR PLANT  
Location RHEA COUNTY

TN0020168 107 G  
PERMIT NUMBER DISCHARGE NUMBER

SUBR 01  
F - FINAL  
METAL CLEANING WASTE POND  
EFFLUENT


MONITORING PERIOD  
YEAR MO DAY YEAR MO DAY  
From 11 04 01 To 11 04 30

\*\*\* NO DISCHARGE  \*\*\*

Attn: Darrin J. Hutchison, Chem/Environmental Mgr

NOTE: Read instructions before completing this form.

PARAMETER	X	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
PH		*****	*****	**	8.4	*****	8.5	12	0	2 / 30	GRAB
00400 1 0 0 EFFLUENT GROSS VALUE		*****	*****	***	Req. Mon. MINIMUM	*****	Req. Mon. MAXIMUM	SU		ONCE/BATCH	GRAB
SOLIDS, TOTAL SUSPENDED		*****	*****	28	*****	2.5	2.5	19	0	1 / 30	GRAB
00530 1 0 0 EFFLUENT GROSS VALUE		*****	*****	*****	*****	30.0 MO AVG	30.0 DAILY MX	MG/L		ONCE/BATCH	GRAB
OIL AND GREASE		*****	*****	28	*****	<5.5	<5.6	19	0	1 / 30	GRAB
00558 1 0 0 EFFLUENT GROSS VALUE		*****	*****	*****	*****	15.0 MO AVG	15.0 DAILY MX	MG/L		ONCE/BATCH	GRAB
PHOSPHORUS, TOTAL (AS P)		*****	*****	**	*****	0.2	0.2	19	0	1 / 30	GRAB
00665 1 0 0 EFFLUENT GROSS VALUE		*****	*****	**	*****	1.0 MO AVG	1.0 DAILY MX	MG/L		ONCE/BATCH	GRAB
COPPER, TOTAL (AS CU)		*****	*****	**	*****	0.0022	0.0022	19	0	1 / 30	GRAB
01042 1 0 0 EFFLUENT GROSS VALUE		*****	*****	***	*****	1.0 MO AVG	1.0 DAILY MX	MG/L		ONCE/BATCH	GRAB
IRON, TOTAL (AS FE)		*****	*****	**	*****	<0.1000	<0.1000	19	0	1 / 30	GRAB
01045 1 0 0 EFFLUENT GROSS VALUE		*****	*****	***	*****	1.0 MO AVG	1.0 DAILY MX	MG/L		ONCE/BATCH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT		0.036	0.036	03	*****	*****	*****	**	0	16 / 30	CALCTD
50050 1 0 0 EFFLUENT GROSS VALUE		Req. Mon MO AVG	Req. Mon DAILY MX	MGD	*****	*****	*****	***		ONCE/ 24 hrs	CALCTD

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  D. E. Grissette  SITE VICE PRESIDENT  TYPED OR PRINTED	Certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	 Site Vice President SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE		DATE		
			423	365-8767	11	07	13
			AREA CODE	NUMBER	YEAR	MO	DAY

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

Reported data is for a batch release from the unlined pond to the yard holding pond that was not through IMP107. The flow was estimated. Additional information is provided in the cover letter.