

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:

- 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
- 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

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Nuclear Regulatory Commission Page 2 December 27, 2011

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.

Manager, Corporate Nuclear Licensing

Enclosures:

- 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 steam 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 hypochorite 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 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 decimals 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 steam 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 hypochorite 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.

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

Form Approved. OMR No. 2040-0004

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PAGE 1 OF 1

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NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) MAJOR

EPA Form 3320-1 (REV 3/88)

Previous editions may be used

E2-6 of 22

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84165 1 0 0 Instream Flo > 3500 CFS	PERMIT REQUIREMENT	CERT.	REPORT YES/NO	Y=1;N=0	******	********	****	****		ONCE/ MONTH	OPRCRE		
	SAMPLE MEASUREMENT												
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AME/TITLE PRINCIPAL EXECUTIVE OFFICER D. E. Grissette D. Grisse						0	1	TELEPI	HONE	D	ATE		
			on submitted. Based on a persons directly respon	my inquiry of the paintering	person or S	Site Vice F	President	A22 26	EE 0767		07 12		
SITE VICE PRESIDENT	and completo. I a	mormation stromition is , in aware that there are si sibility of fine and impriso	ignificant penalties for su	bmitting false info		IGNATURE OF PRIN			65-8767		07 13		
TYPED OR PRINTED COMMENTS AND EXPLANATION OF ANY \						OFFICER OR AUTI		AREA N	IUMBER	YEAR	MO DAY		
TYPED OR PRINTED COMMENTS AND EXPLANATION OF ANY \ Instream flow of > 3500 cfs present as results invalidated during the quality ass	required by the perr		-) days during	the month of .	June. Cover letter o	contains details of IP	CODE					

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PERMITTEE NAME/ADDRESS (Include Name TVA - WATTS BAR NUCL	Different)			arge elimination sy Initoring report	(DMR)	MAJOR UBR 01			Form Approved. OMB No. 2040-0004		
Address P. 0. BOX 2000 (INTEROFFICE MOB1F) SPRING CITY, TN 37381		-		020168 I NUMBER	DISCHAR		- FINAL HOMONITORING	FOR OUTEA	J I 101	;	
Facility TVA - WATTS BAR NUCLEAR Location RHEA COUNTY	R PLANT			МОИ	TORING PERIOD	E	FFLUENT		LL 10		
Attn: Darrin J. Hutchison, Chem/Envi	ironmental Mgr		From 11	MO DA		MO DAY 06 30	NO DISCHAR	اا	eee a compl	eting this fon	n.
PARAMETER		QUAN	TITY OR LOADING			QUALITY OR CON	CENTRATION		NO. EX	FREQUENCY OF	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS]	ANALYSIS	ĺ
IC25 STATRE 7DAY CHR CERIODAPHNIA	SAMPLE MEASUREMENT	****	******	**	Monitoring Not Required	*****	****	23			
TRP3B 1 0 0 EFFLUENT GROSS VALUE	RERMIT REQUIREMENT	******	****	***	SS: MINIMUM	******	*****	PERCENT		SEMI: ANNUAL	COMPOS
IC25 STATRE 7DAY CHR PIMEPHALES	SAMPLE MEASUREMENT	*****	****	**	Monitoring Not Required	****	*****	23			
TRP6C 1 0 0 EFFLUENT GROSS VALUE	RERMITI REQUIREMENT	*****	******	***	343 MINIMUM	****	******	PERCENT		SEMI- ANNUAL	COMPOS
	SAMPLE MEASUREMENT										
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	SAMPLE MEASUREMENT			•							
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	REQUIREMENT:										
NAME/TITLE PRINCIPAL EXECUTIVE (AME/TITLE PRINCIPAL EXECUTIVE OFFICER Certify under penalty of law that this	mally of law that this doc	mont and all attachments	s were prepare	d under my	-9	7	TELEPHO	ONE	D	ATE
D. E. Grissette direction or supervision in accordance properly gather end evaluate the infon persons who manage the system, or the state of the control of	nd evaluate the informati rage the system, or those	on submitted. Based on n persons directly respons	ny inquiry of the lible for gatheri	person or on the	Site Vice Pres	sident		0767	1		
SITE VICE PRESIDENT	and complete. I a	um aware that there ere si	to the best of my knowled gnificant penalties for sut nament for knowing violati	amilting false in	formation, SIGN	ATURE OF PRINCIP	AL EXECUTIVE IZED AGENT	AREA NU	-8767 MBER		07 13 MO DAY
TYPED OR PRINTED COMMENTS AND EXPLANATION OF AN	 NY VIOLATIONS (Refere	nce all atlachments h	ere)					CODE			
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Name TVA - WATTS BAR NUCLI	Diac	ALPHOUGE MI	JAIIQAING REPOR	, 15	SUBR 01 CMB No. 2040-0004							
Address P.O. BOX 2000		-	TNO	020168		102 G	- FINAL					
(INTEROFFICE MOB1F) SPRING CITY, TN 37381				T NUMBER	DISCHAR		D HLDING POND	EMERG O	/FRFI \	V WEIR		
Facility TVA - WATTS BAR NUCLEAR	PLANT	_										
Location RHEA COUNTY		_	VEAD	MON DA	ITORING PERIOD Y YEAR		EFFLUENT					
			From 11	06 0		06 30	*** NO DISCHAR	GE XX	***			
Attn: Darrin J. Hutchison, Chem/Envi	ronmental Mgr		110111	00 0	1 10 11	00 30	NOTE: Read inst	ructions befor	e comple	eting this fo	m.	
PARAMETER		QUAN	ITITY OR LOADING			QUALITY OR CON	CENTRATION		NO.	FREQUENC	T	MPLE YPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS	1	ANALYSIS	¹	
TEMPERATURE, WATER DEG. CENTIGRADE	SAMPLE MEASUREMENT	****	******	**	*****	*****		04				
00010 1 0 0	PERMIT	*****	*****	***	****	******	35	DEG. C.	- 1º	DAILY	G	RAB
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SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	*****	*****	##	*****			19			<u> </u>	
00530 1 0 0	PERMIT	****	***	***	- inneres	30.0	100.0	MG/L		WEEKLY	/ G	RAB
EFFLUENT GROSS VALUE	REQUIREMENT					MO AVG	DAILY MX	1	•			
OIL AND GREASE	SAMPLE MEASUREMENT	*****	******	Ath	*****			19				
00556 1 0 0	PERMIT	*****	*****	****	******	15.0	20.0	MG/L	—	WEEKLY	/ GI	RAB
EFFLUENT GROSS VALUE	REQUIREMENT		27.72			MO AVG	DAILY MX					
CHROMIUM, TOTAL (AS CR)	SAMPLE MEASUREMENT	*****	*****	**	*****			19				
01034 1 0 0	PERMIT	*****	*****	***	*****	2	2	MG/L		WAIVED		RAB
EFFLUENT GROSS VALUE	REQUIREMENT					MO AVG	DAILY MX			***************************************	` ``	
ZINC, TOTAL (AS ZN)	SAMPLE	*****	*****		*****	MO ATG	UAIL I MA	 	 		╁╌	
EIRC, TOTAL (AS EN)	MEASUREMENT			**				19]	
01092 1 0 0	PERMIT	*****	*****	***	*****	1.0	1.0	MG/L		2/	G	RAB
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FLOW, IN CONDUIT OR THRU	SAMPLE				*****	*****	******	**	<u> </u>		+	
TREATMENT PLANT	MEASUREMENT			03								
50050 1 0 0	PERMIT	REPORT	REPORT	MGD	*****	****	*****	****	_	DAILY	INS	STAN
EFFLUENT GROSS VALUE	REQUIREMENT	MO AVG	DAILY MX			_			<u> </u>			
NAME/TITLE PRINCIPAL EXECUTIVE O	ESICED Certify under pe	nally of law that this doc	ument and all attachment	were orecen	ed under my	0	,	TELEPH	ONE	т -	DATE	
	direction or super	vision in accordance wil	h a system designed to as ion submitted. Based on n	ssure that qual	ified personnel i	17	——			+		 !
D. E. Grissette	persons who man	lage the system, or those	e persons directly respons	ible for gather	ring the	Site Vice Pre	sident	400 00	E 070-			4.5
SITE VICE PRESIDENT	end complete. I a	m aware that there are s	to the best of my knowled significant penalties for sul	omitting false i		NATURE OF PRINCI		423 36	5-8767	11	07	13
TYPED OR PRINTED			onment for knowing violeti		, 0.0.	FFICER OR AUTHO	RIZED AGENT	AREA NU	MBER	YEAR	MO	DAY
COMMENTS AND EXPLANATION OF AN	V VIOLATIONS (Potom	nce all attachments b	iomi					CODE		_		لـــــا
	I VIOLATIONS (ABIBIB	nce dii eliacimients n	999)									
No discharge this period.												

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

MAJOR

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

Form Approved.

PERMITTEE NAME/ADDRESS (Include Fac			RIGE ELIMINATION S'		MAJOR SUBR 01	Form Approved. OMB No. 2040-0004						
Address P.O. BOX 2000 (INTEROFFICE MOB1F)		-	TNO	020168		102 G	F - FINAL					
SPRING CITY, TN 37381		-	PERMI	T NUMBER	DISCHAR	GE NUMBER	YD HLDING PON	D EMERG O	/ERFL	N WEIR		
Facility TVA - WATTS BAR NUCLEAR PL	<u> ANT</u>	- -		MONI	TORING PERIOD		EFFLUENT					
Location RHEA COUNTY			YEAR	MO DA		MO DAY			1 .			
Attn: Darrin J. Hutchison, Chem/Environ	mental Mar		From 11	06 01		06 30	*** NO DISCHA	RGE XX	***			
Alli. Dailii J. Matchison, Ottomichenon					<u></u>		NOTE: Read in	structions befo	re compl	eting this fo	rm.	
PARAMETER		QUAN	TITY OR LOADING			QUALITY OR CO	NCENTRATION		NO.	FREQUENC		
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS	EX	OF ANALYSIS	TYF	PE
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT	*****	*****	**	*****			19				
50060 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	#######	****	********	0:10 Mo.AVG	0.10 DAILY MX	MG/L		WEEK-	GR/	AB
DISCHARGE EVENT OBSERVATION	SAMPLE	*****		04	*****	******	******	***	1		-	t-100-11
	MEASUREMENT			94								
84165 1 0 0 Instrm Flo > 3500 CFS	REQUIREMENT	CERT.	REPORT YES/NO	Y=1;N=0	***	*******	*****	****		ONCE/ MONTH		ERD
Institut Fib > 3500 GF3	SAMPLE	CERSI.	TES/NU	 	Listerials	1		 		MOME	+	
	MEASUREMENT											
	PERMIT A											
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	SAMPLE MEASUREMENT		**************************************									
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	FERMIT REQUIREMENTS							7				
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT						***					
NAME/TITLE PRINCIPAL EXECUTIVE OFFI	ICER Certify under po	enalty of law that this docu	ment and all attachment	s were prepare	d under my	D	<u> </u>	TELEPH	ONE		DATE	
D. E. Grissette	direction or supo properly gather a	rvision in accordance with and evaluate the information mage the system, or those	i a system dasigned to a on submitted. Based on i	ssure that qualit my inquiry of the	fied personnel person or	W.	Jef		-	1		
SITE VICE PRESIDENT	information, the i	nage the system, or those information submitted is , t am aware that there are si sibility of fine and impriso	o the best of my knowled prificant penalties for su	dge and belief, t bmitting false in	rue, accurate, formation, SIGN	Site Vice Pr VATURE OF PRINC	IPAL EXECUTIVE		5-8767	11		13
TYPED OR PRINTED	a crossed as bos	mental and the control of the contro	THE PROPERTY OF THE PARTY OF TH	area est.	0	FFICER OR AUTHO	DRIZED AGENT	AREA NO	JMBER	YEAR	MO [DAY
COMMENTS AND EXPLANATION OF ANY V	IOLATIONS (Refere	ence all attachments he	ere)									لــــــــا
No discharge this period.		•										

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EPA Form 3320-1 (REV 3/89)

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PERMITTEE NAME/ADDRESS (Include F Name TVA - WATTS BAR NUCLE Address P.O. BOX 2000	DISC	CHARGE MO	NRGE ELIMINATI	PORT (DM	SUBR 01 OMB NO. 2040								
(INTEROFFICE MOB1F)		_	}	020168		102		F - FINAL					
SPRING CITY, TN 37381 Facility TVA - WATTS BAR NUCLEAR	PLANT		PERMI	T NUMBER	DISC	HARGE NU	JMBER	BIOMONITORING	FOR OUTFA	LL 102	!		
Location RHEA COUNTY		_			TORING PE			EFFLUENT				COMPOS	
			From 11	MO DAY		AR MO	DAY	*** NO DISCHA	RGE XX	***			
Attn: Darrin J. Hutchison, Chem/Enviro	onmental Mgr		Tion II	00 01	ا انال	1 06	30	NOTE: Read in	structions before	e compl	eting this fo	m.	
PARAMETER			TITY OR LOADING					NCENTRATION		NO. EX	FREQUENC OF ANALYSIS	SAMPLE TYPE	
		AVERAGE	MAXIMUM	UNITS	MINIMUN	1 A	VERAGE	MAXIMUM	UNITS				
IC25 STATRE 7DAY CHR CERIODAPHNIA	SAMPLE MEASUREMENT	*****	*****	**		'	****	*****	23				
TRP3B 1 0 0 EFFLUENT GROSS VALUE	PERMIT RECUIREMENT	业务政府市业 市会	4464644	****	313 MINIMU		****	*****	PERCENT		SEMI:		
IC25 STATRE 7DAY CHR PIMEPHALES	SAMPLE MEASUREMENT	******	****	**			*****	*****	23				
TRP6C 1 0 0 EFFLUENT GROSS VALUE	PERMIT. REQUIREMENT	****	******	***	3:3 MINIMU		*****	******	PERCENT		SEMI- ANNUAL		
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	SAMPLE MEASUREMENT												
	PERMIT REQUIREMENT						: .				¥ .		
NAME/TITLE PRINCIPAL EXECUTIVE OF	NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Certify under penalty of law that this d			s were prepared	1 under my		7 7		TELEPHO	ONE		DATE	
D. E. Grissette direction or supervision in eccordance with properly gather and evaluate the information persons who manage the system, or those information, the information submitted is , to and complete. I am ewere that there are sincutating the possibility of fine and impriso			n a system designed to a: on submitted. Based on n o persons directly respons	ssure that qualif my inquiry of the sible for gatherir	red personnel person or regithe	W.S.	te Vice Pi	resident					
			gnificant penalties for sul	bmitting false in	true, accurate, Sile Vice President 423 Information, SIGNATURE OF PRINCIPAL EXECUTIVE	AREA NU	i-8767 MBER	11 YEAR	07 13 MO DAY				
TYPED OR PRINTED			CODE										
No Discharge this Period	MENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachme. Discharge this Period												

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Page 1 of 1

EPA Form 3320-1 (REV 3/99)

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PERMITTEE NAME/ADDRESS (Include / Name TVA - WATTS BAR NUCL)			RGE ELIMINATION SYN NITORING REPORT		MAJOR SUBR 01	·		Form Approved. OMB No. 2040-0004			
Address P.O. BOX 2000 (INTEROFFICE MOB1F)		-	TNO	020168		103 G	F - FINAL				
SPRING CITY, TN 37381			PERMI	T NUMBER	DISCHAR	GE NUMBER	LOW VOL. WAST	E TREATME	ENT PON	ND	
Facility TVA - WATTS BAR NUCLEAR	PLANT	· 	. [110111			EFFLUENT				
Location RHEA COUNTY			YEAR	MO DAY	TORING PERIOD YEAR	MO DAY					
Attn: Darrin J. Hutchison, Chem/Envi	ronmental Mgr		From 11	06 01		06 30	NO DISCHA	<u> </u>	re comole	atina this to	m
PARAMETER		QUAN	TITY OR LOADING			QUALITY OR CO				FREQUENC OF	Y SAMPLE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS		ANALYSIS	
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/	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	*****	*****	44	*****	7.5	7.5	19	0	1 / 30	GRAB
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	****	- 2444244	A+44 ·	*****	30:0 MO:AVG	(10010. DAILY MX	MG/L		ONCE/	GRAB
OIL AND GREASE	SAMPLE MEASUREMENT	****	****	· drai	*****	<5.6	<5.6	19	0	1 / 30	GRAB
00556 1 0 0 EFFLUENT GROSS VALUE	REQUIREMENT	*******	*****	****	***	/ <u>15</u> 10 -MO AVG	200 DAILY MX	MG/L		ONCE/	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	Reg. Mon MO AVG	Reg. Mon. DAILY MX	MGD	ARRENA	******	******	****		CONTIN	RCORDR
	SAMPLE MEASUREMENT		***************************************	·						*	
	PERMIT REQUIREMENT				+ 1	#	-				
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	PERMIT REQUIREMENT					Y					
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	REQUIREMENT										
NAME/TITLE PRINCIPAL EXECUTIVE O	direction or super	vision in accordance with	n a system designed to a	ssure that qualifi	led personnel	21	_	TELEPI	HONE		DATE
D. E. Grissette SITE VICE PRESIDENT	D. E. Grissette properly gather and evaluate the informat persons who manage the system, or the information, the information when information the information.			sible for gatherin dge and belief, tr	ng the rue, accurate,	Site Vice P	resident CIPAL EXECUTIVE	423 36	65-8767	11	07 13
		sibility of fine and impriso				FICER OR AUTH			UMBER	YEAR	MO DAY
TYPED OR PRINTED	WWO ATIONS OF							CODE			
COMMENTS AND EXPLANATION OF AN	·		arej								
Discharged Low Volume Waste Trea	atment Pond 9 days in	June.									

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EPA Form 3320-1 (REV 3/99)

Previous editions may be used

Name	TVA - WATTS BAR NUCLEAR PLANT
Address	P.0. 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 107 G

Form Approved. OMB No. 2040-0004

TN0020168 PERMIT NUMBER

DISCHARGE NUMBER

EFFLUENT

*** NO DISCHARGE

METAL CLEANING WASTE POND

XX ***

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

NOTE: Read Instructions before completing this form.

PARAMETER		QUAN	TITY OR LOADING			QUALITY OR CONC	ENTRATION		NO. EX	FREQUENCY OF	SAMPLE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS	1	ANALYSIS	1172
РН	SAMPLE MEASUREMENT	******	*****	4.9		*****		12			
00400 1 0 0 EFFLUENT GROSS VALUE	PERMITI REQUIREMENT	****	*******	***	RegsMön.	有政治会会会会	Reg. Mon. MAXIMUM	su		ONCE/ BATCH	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	disk disk disk di	*****	26	de de de de de de de de			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	60000000 60000000000000000000000000000	电影 电影响 电影 电影 电影 电	******		150 MO AVG	15:0 DAILY MX	MG/L		ONCE/ BATCH	GRAB
PHOSPHORUS, TOTAL (AS P)	SAMPLE MEASUREMENT	*****	*****	44	****			19			
00665 1 0 0 EFFLUENT GROSS VALUE	PERMIT. REQUIREMENT	****	***************************************	**	***	1.0 Mo Ave	1.0 DAILY MX	MG/L		ONGE/ BATCH	GRAB
COPPER, TOTAL (AS CU)	SAMPLE MEASUREMENT	****	*****	44	*****			19			
01042 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	***	*****	***	******	1.0 MO AVG	1.0 DAILY MX	MG/L		ONGE/ BATCH	GRAB
IRON, TOTAL (AS FE)	SAMPLE MEASUREMENT	****	*****	44	******		;	19			
01045 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	***		140 Mo AV.G	1.0 DAILY MX	. MG/L		ONGE/ BATCH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT			03	******	*****	*****	da			
50050 1 0 0 EFFLUENT GROSS VALUE	PERMITI REQUIREMENT	Reg Mon Mo AVG	Req Mon DAILY MX	MGD		*****	*****	****		ONCE/ 24 hrs	CALCTO

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	Certify under penalty of law that this document and all attachments were prepared under my		TE	LEPHONE		DATE	
SITE VICE PRESIDENT	direction or supervision in accordance with a system designed to assure that qualified personners, 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,	Site Vice President	423	365-8767	11	07	13
TYPED OR PRINTED	Including the possibility of fine and imprisonment for knowing violations.	OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	МО	DAY

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

No discharge this period.

PERMITTEE NAME/ADDRESS (Include	Different)				ition system <i>(NPDE:</i> LEPORT <i>(DMR)</i>	S) MAJOR			om Approve			
Name TVA - WATTS BAR NUC	LEAR PLANT		Dis	CHARGE M	DRITORING P	CEPURI IDIMIV	SUBR 01		0	MB No. 204	0-0004	1
Address P.0. BOX 2000 (INTEROFFICE MOB1F)		-	TN	0020168		113 G	F - FINAL					
SPRING CITY, TN 37381		· -	PERM	IT NUMBER	R DIS	CHARGE NUMBER	SCCW DISCHAR	GE				
Facility TVA - WATTS BAR NUCLEA	AR PLANT	-					7 EFFLUENT					
Location RHEA COUNTY			YEAR	MON DA	ITORING P		4					
			_	06 0			THE NO DISCHA	RGE	***			
Attn: Darrin J. Hutchison, Chem/Em	vironmental Mgr		From 11	00 0	1 10	11 06 30	J NOTE: Read In	structions before	e comp	leting this fo	m.	
PARAMETER		QUA	NTITY OR LOADING		T	QUALITY OR	CONCENTRATION		NO.	FREQUENC	Y SA	AMPLE
		·				· · · · · · · · · · · · · · · · · · ·			EX	OF ANALYSIS	, -	TYPE
		AVERAGE	MUMIXAM	UNITS	MINIM	JM AVERAG	E MAXIMUM	UNITS		7-0-0-0	`	
TEMPERATURE, WATER DEG. CENTIGRADE	SAMPLE MEASUREMENT	****	****	**	*****	*****	* 33	04	0	30 / 30	RC	ORDR
00010 1 0 0	PERMIT	*****	****	****	*****	** ******	* Reg. Mon.	DEG. C.	1	HOURLY	/ RC	ORDR
EFFLUENT GROSS VALUE	REQUIREMENT		•				DAILY MX				1.	
TEMPERATURE, WATER DEG.	SAMPLE	****	****	†	****	** ******			0	30 / 30	RC	ORDR
CENTIGRADE	MEASUREMENT						20.1	04	"	33.33	1	
00010 P 0 0	PERMIT	*****	****	***	****	** *****	* 33.5	DEG C	-	HOURLY	RC	ORDR
Temp, Receiving Stream Btm	REQUIREMENT			1			DAILY MX		1			
TEMPERATURE, WATER DEG.	SAMPLE	******	****		*****	** ******			0	30 / 30	RC	ORDR
CENTIGRADE	MEASUREMENT		1	"			20.2	04	•			
00010 Z 0 0	PERMIT	****	*****	****	****	** ******	* 30.5	DEG. C.	-	HOURLY	RG	ORDR
Instream Edge of Mixing Zone	REQUIREMENT						DAILY MX	,				7.7
TEMP. DIFF, BETWEEN SAMP. &	SAMPLE	*****	******	**	****	** *****			0	30 / 30	CA	ALCTD
UPSTRM DEG.C	MEASUREMENT			"-			•	04				
00016 Z 0 0	PERMIT	****	*****	****	****	** ***	* 3	DEG. C.		HOURLY	CA	ALCTD
Temp, Rise UpStrm to DnStrm	REQUIREMENT			.	1		DAILY MX	: 1				
OXYGEN, DISSOLVED (DO)	SAMPLE	*****	*****	***	7.4	*****		19	0	1/30	G	RAB
	MEASUREMENT							19				
00300 1 0 0	PERMIT	****	****	. ****	Reg. N	lon ******	* ***	MG/L		ONCE/	G	RAB
EFFLUENT GROSS VALUE	REQUIREMENT	· . 		-	DAILY				'	MONTH	1	
PH	SAMPLE	*****	*****	***	8.2		* 8.2		0	1/30	G	RAB
1	MEASUREMENT		1	}	J.2		0.2	12				
00400 1 0 0	PERMIT	****	*****	***	6,0	****	* 9.0	SU		ONCE/	Ğ	RAB
EFFLUENT GROSS VALUE	REQUIREMENT			-[MINIM		MAXIMUM	ı ·		MONTH		
SOLIDS, TOTAL SUSPENDED	SAMPLE	*****	*****	-	*****		5.6		0	1/30	G	RAB
	MEASUREMENT					0.0	3.0	19	"		-	
00530 1 0 0	PERMIT	******	****	***	****	** 30.0	100.0	MG/L		ONCE/	G	RAB
EFFLUENT GROSS VALUE	REQUIREMENT			1		MOAV		.		MONTH	-	े जिल्ला इंटियन
<u> </u>					<u> </u>		O DAIL INA	Ļ	<u> </u>			
NAME/TITLE PRINCIPAL EXECUTIVE	OFFICER I Certify under pe	malty of law that this dor	curnent and all attachmen th a system designed to	nts were prepare	ed under my	$\Omega \Lambda$		TELEPHO	ONE		DATE	
D. E. Grissette	property gather a	amoini eti etsutave bn	tion submitted. Based on	my inquiry of th	te person or					11		
	persons who mar information, the in	rage the system, or thos aformation submitted is	e persons directly respon , to the best of my knowle	nsible for gather edge and belief	ring the Irue, accurate	Site Vice	President	423 365	5-8767	11	07	13
SITE VICE PRESIDENT	and complete. I a	em aware that there are	significant penalties for s conment for knowing viola	ubmitting false i	nformation,		INCIPAL EXECUTIVE					<u></u>
TYPED OR PRINTED	micronin fre bos	Promis or min sun mibre	PERSONAL PROPERTY AND AUGUS	EUGH RJ.		OFFICER OR AU	THORIZED AGENT	AREA NU	MBER	YEAR	MO	DAY

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) MAJOR

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: NaOCI (<0.1 mg/L), Towarbrom (<0.1 mg/L), Flogard MS6237 (<0.2 mg/L), CT1300 (<0.05 mg/L), and Bentonite Clay.

Name TVA - WATTS BAR NUCLEA	ess P.O. BOX 2000			DISCHARGE MONITORING REPORT (DMR)						MAJOR Form Approved. SUBR 01 OMB No. 2040-0004				
(INTEROFFICE MOB1F)			TNO	020168		113 G		FINAL						
SPRING CITY, TN 37381 Facility TVA - WATTS BAR NUCLEAR PL			PERMI	T NUMBER	DISC	HARGE NUMBI	ER SC	CW DISCHARG	E					
Facility TVA - WATTS BAR NUCLEAR PL Location RHEA COUNTY	AN			MONI	TORING PER	NOD	EF	FLUENT						
			YEAR	MO DAY	니 _ [포	AR MO DA		NO DISCHA	RGE	***				
Attn: Darrin J. Hutchison, Chem/Environ	mental Mgr		From 11	06 01	To1	1 06 30	0	NOTE: Read in:	L	ne compl	otion this for	m		
PARAMETER		QUAN	TITY OR LOADING			QUALITY O	R CONCE	NTRATION		NO.	FREQUENC'			
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVER	AGE	MAXIMUM	UNITS		ANALYSIS			
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	189.657	201.204	03	*****	****	***	****	to the	0	30 / 30	RCORDR		
50050 1 0 0 EFFLUENT GROSS VALUE	REQUIREMENT	Req. Mon MO AVG	Req. Mon. DAILY MX	MGD	*****	****	***	*****	****		CONTIN	RGORDR		
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT	******	*****	##	*****	<0.0	05	<0.05	19	0	28/30 28 M	GRAB 7/13/1/		
50060 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT		*****	***	****	0.0 A OM		0.158 DAILY MX	MG/L	11.	WEEK- DAYS	GRAB		
TEMPERATURE - C, RATE OF CHANGE	SAMPLE MEASUREMENT	******	1	62	****			*****	**	0	30 / 30	CALCTD		
82234 Z 0 0 Temp, Rate of Chng DnStrm	PERMIT REQUIREMENT	*****	2 DAILY MX	DEG. C.	*****	****	***	*****			HOURLY	CALCTD		
DISCHARGE EVENT OBSERVATION	SAMPLE MEASUREMENT	*****	YES	94	****	****	***	*****	**	0	1/30	RCORDR		
84165 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	Reg. Mon. TOTAL	Y=1;N=0	*****	****	***	*****	****		ONCE/ MONTH	RCORDR		
	SAMPLE MEASUREMENT													
	PERMIT REQUIREMENT								.					
	SAMPLE MEASUREMENT													
	PERMIT REQUIREMENT													
	SAMPLE MEASUREMENT													
	PERMIT REQUIREMENT													
NAME/TITLE PRINCIPAL EXECUTIVE OFFI		enalty of law that this docu					7	/	TELEPI	HONE		DATE		
D. E. Grissette	property gather	ervision in accordance with and evaluate the information mage the system, or those	on submitted. Based on r	ny inquiry of the	person or	1.4	1.7							
SITE VICE PRESIDENT	information, the and complete.	nage the system, or those Information submitted is , t am aware that there are siy assibility of fine and impriso	o the best of my knowled grificant penalties for sul	ige and belief, t bmitting felse in	rue, accurate,	SIGNATURE OF I		EXECUTIVE		55-8767	11	07 13		
TYPED OR PRINTED					}	OFFICER OR A	AUTHORIZ	ED AGENT	AREA N	UMBER	YEAR	MO DAY		
COMMENTS AND EXPLANATION OF ANY V	•		•	as 23.46 de	oreas Caleina	WRN injected	the follow	ing raw water o		nOC1 (<1) 1 ma//)			

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: NaOCI (<0.1 mg/L), Towerbrom (<0.1 mg/L), Flogard MS6237 (<0.2 mg/L), CT1300 (<0.05 mg/L), and Bentonite Clay.

Name TVA - WATTS BAR NUCLI	SS P.0. BOX 2000				NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) DISCHARGE MONITORING REPORT (DMR)			MAJOR Form Appr SUBR 01 OMB No. 2				
(INTEROFFICE MOBIF)			TNO	020168			113 T	F - FINAL				
SPRING CITY, TN 37381		_	PERMI	TNUMBER	DIS	CHARG	E NUMBER	BIOMONITORIN	IG FOR OUTFA	LL 113	3	
Facility TVA - WATTS BAR NUCLEAR	PLANT		f	MONIT	CORING PI	ERIOD		EFFLUENT				
Location RHEA COUNTY			YEAR	MO DAY			IO DAY					
Attn: Darrin J. Hutchison, Chem/Envir	onmental Mgr		From 11	06 01			06 30	NOTE: Read	HARGE	compl	eting this fon	m.
PARAMETER		QUAN	TITY OR LOADING			Q	UALITY OR C	ONCENTRATION		NO. EX	FREQUENCY	SAMPLE
		AVERAGE	MAXIMUM	UNITS	MINIMU	IM	AVERAGE	MAXIMUM	UNITS	1	ANALYSIS	
IC25 STATRE 7DAY CHR CERIODAPHNIA	SAMPLE MEASUREMENT	*****	shi shi shi shi shi shi shi	**	Monitor Not Requ		*****	****	23			
TRP3B 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*******	****	****	385 MINIM	-	******	*****	PERCENT		SEMI- ANNUAL	COMPOS
IC25 STATRE 7DAY CHR PIMEPHALES	SAMPLE MEASUREMENT	****	*****	**	Monitor Not Req	ing	****	*****	23			
TRP6C 1 0 0	PERMIT	*****	* *******	****	8		*****	***	PERCENT		SEMI-	COMPOS
EFFLUENT GROSS VALUE	REQUIREMENT				MINIM						ANNUAL	
	SAMPLE MEASUREMENT											
	REQUIREMENT					1,2						
	SAMPLE MEASUREMENT											
	REQUIREMENT											
	SAMPLE MEASUREMENT						-					
	REQUIREMENT											
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT								-			
	SAMPLE MEASUREMENT											
	REQUIREMENT		***				Teath . T					
NAME/TITLE PRINCIPAL EXECUTIVE OF	FFICER Certify under pe	nalty of law that this docu	ment and all attachment	s were prepared	under my		\sim 1		TELEPH	ONE		DATE
D. E. Grissette	direction or super	rvision in accordance with nd evaluate the informatio	a system designed to as	sure that qualifi	led personnel		col (\$			- 	
SITE VICE PRESIDENT	persons who man information, the in	nage the system, or those information submitted is , to m aware that there are sign	persons directly respons to the best of my knowled	sible for gatherin Ige and ballef, tr	ue, accurate,	SIGNAT	Site Vice F	President	423 369	5-8767	11	07 13
TYPED OR PRINTED		sibility of fine and Impriso						ORIZED AGENT	AREA NU	MBER	YEAR	MO DAY
TYPED OR PRINTED COMMENTS AND EXPLANATION OF AN	VACUATIONS 45-1				1				CODE			

E2-16 of 22

EPA Form 3320-1 (REV 3/99)

Previous editions may be used

PERMITTEE NAME/ADDRESS (Include Finance TVA - WATTS BAR NUCLE		Oifferent)	arge Eliminat D NITORING R			Form Approved. OMB No. 2040-0004							
Address P.O. BOX 2000			TNO	020168		10	07 G	F - FINAL					
(INTEROFFICE MOB1F) SPRING CITY, TN 37381				NUMBER	DIS	CHARGE		METAL CLEANING	G WASTE P	OND			
Facility TVA - WATTS BAR NUCLEAR	PLANT	-			TORING PE			EFFLUENT					
Location RHEA COUNTY			YEAR	MO DA		EAR MO	DAY	*** *** ******		٦			
Attn: Darrin J. Hutchison, Chem/Enviro	onmental Mgr		From 09	03 0		09 03		*** NO DISCHA	L	***			
					T			NOTE: Read In	structions befo		·		
PARAMETER		QUAF	NTITY OR LOADING			QU	ALITY OR CO	NCENTRATION		NO.	FREQUEN	I TY	APLE /PE
		AVERAGE	MAXIMUM	UNITS	MINIMU	М	AVERAGE	MAXIMUM	UNITS		ANALYSI	3	-
PH	SAMPLE MEASUREMENT	*****	*****	**	8.4		*****	8.4	12	0	2/31	GR	RAB
00400 1 0 0	APERMIT:	****	*********	***	RegsM	onizat	W-FE-MAN	Req. Mon	Su su	7.7	ONCE	GF	(AB)
EFFLUENT GROSS VALUE	เรียดกโยสพลุทูเร				MINIM			MAXIMUM			ONCE/ BATCH	HLA	RAB)
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	*****	***	26	*****	n#	11.0	11.0	19	0	1/31		RAB
00530 1 0 0	PERMITA	20-700-00		******	*****		30.0	30.0	MG/L		ONCE	GF	RAB -
EFFLUENT GROSS VALUE	REQUIREMENTS		737737				MO AVG	DAILYMX			BATCH		
OIL AND GREASE	SAMPLE MEASUREMENT	*****	*****	26	*****	r#	<5.8	<5.9	19	0	1/31	GR	RAB
00556 1 0 0	RERMIT	*******		*******	****		1/15/0	A/5(0)	MG/L		ONGE/	: ∮GR	ΆB
EFFLUENT GROSS VALUE	REQUIREMENT	*******			-		MO AVG				BATCH		
PHOSPHORUS, TOTAL (AS P)	SAMPLE MEASUREMENT	****	*****	it sh	*****		5.5	5.5	19	2	1/31	GR	VAB
00665 1 0 0	APERMINE L	****		**	****		3120	10	MG/L	. 1	ONGE/	GR	AB*
EFFLUENT GROSS VALUE	REQUIREMENT						MO AVG	DAILYMX	्री		BATCH		5pt-
COPPER, TOTAL (AS CU)	SAMPLE MEASUREMENT	*****	*****	AA	*****		0.0041	0.0041	19	0	1/31	GR	АВ
01042 1 0 0	PERMIN	*****	* *****	***	****		1.0.	1.0	MG/L		ONCE/	GR	AB
EFFLUENT GROSS VALUE	REQUIREMENT				10000		MO AVG	DAILY MX			BATCH	300	*
IRON, TOTAL (AS FE)	SAMPLE MEASUREMENT	*****	******	**	*****		0.1350	0.1350	19	0	1 / 31	GR	AB
01045 1 0 0	PAR CERMINA AND	ALLEN AND A		****	2	MA LO	6 41-01	160	MG/L		ONCE	GR	AB4
EFFLUENT GROSS VALUE	REQUIREMENT						MO'AYG	DAILYMX			ВАЛСН		
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	2.550	2,550	03	****		*****	******	**	0	1 / 31	CAL	СТО
50050 1 0 0	S PERMI	Reg-Mon-	Reg Mon 4	MGD	******	3 3		*******	F1 P499	V - 3	ONCE	CAL	CTD.
EFFLUENT GROSS VALUE	REQUIREMENT	MOAVG.	DAILYMX			- 1 Light					24 hirs		
NAME/TITLE PRINCIPAL EXECUTIVE OF	EICER Certify under per	naity of law that this doc	cument and all attachments	were prenare	d under my		~ ~	4	TELEPH	ONE		DATE	
D. E. Grissette	direction or super properly gather ar	vision in accordance wi nd evaluate the informat	th a system designed to as tion submitted. Based on n to persons directly respons	sure that quali ry inquiry of th	ified personnel e person or		Silate S					DATE	-
SITE VICE PRESIDENT	information, the in and complete. I as	domation submitted is m aware that there are t	, to the best of my knowled significant penalties for sub	ge and belief, mitting false ir	true, accurate,		Site Vice Pri RE OF PRINC	PAL EXECUTIVE	423 36	5-8767	11	07	13
TYPED OR PRINTED	including the poss	sidility of tine and impris	conment for knowing violati	ons.		OFFICE	ER OR AUTHO	RIZED AGENT	AREA N	UMBER	YEAR	MO	DAY
COMMENTS AND EXPLANATION OF ANY	VIOLATIONS (Referes	nce all attachments I	here)										
The effluent volume of 2.55 MG was n stream thus ensuring the protection of		P 107 to the YHP	which has a capaci	ty of 40 MC	3. An engine	ering calcu	ılation ylelde	d a worst-case estir	nate of 0.42	5 mg/L is	n the rece	iving	

EPA Form 3320-1 (REV 3/99)

Previous editions may be used

E2-17 of 22

PERMITTEE NAME/ADDRESS (Include For Name TVA - WATTS BAR NUCLE	acility Name/Location if	Oifferent)			ARGE ELIMINATION ST INITORING REPORT	T (DMR)	MAJOR SUBR 01			m Approve MB No. 2040		
Address P.O. BOX 2000			TNO	020168		107 G	F - FINAL					
(INTEROFFICE MOB1F) SPRING CITY, TN 37381			}	T NUMBER	DISCHAR		METAL CLEANING	WASTE PO	IND		3	
Facility TVA - WATTS BAR NUCLEAR	PLANT	_					EFFLUENT					
Location RHEA COUNTY			YEAR	MONI MO DA	TORING PERIOD		EFFLUENT					
						MO DAY	*** NO DISCHAR	GE	***	•		
Attn: Darrin J. Hutchison, Chem/Enviro	onmental Mgr		From 09	09 01	To 09	09 30	NOTE: Read instr	uctions before	a comple	rting this for	m.	
PARAMETER		QUAN	TITY OR LOADING			QUALITY OR CON				FREQUENC'	SAMPLE	_
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS]]	ANALYSIS		
PH	SAMPLE MEASUREMENT	****	*****	**	7.2	****	7.2	12	0	2/30	GRAB	_
00400 1 0 0 EFFLÜENT GROSS VALUE	REQUIREMENT.	*******	BENTANDA DE	***	Red Mon.		Req Mon:	SU		ONCE/	GRAB	
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	*****	*****	26	*****	6.9	6.9	19	0	1 /.30	GRAB	
00530 1 0 0 EFFLUENT GROSS VALUE	ATTENUITENEN			****			20.02 DAILY MX	MG/L		ONCE/ BATCH	GRAB	
OIL AND GREASE	SAMPLE MEASUREMENT	****	*****	26	*****	<5.0	<5.0	19	0	1 / 30	GRAB	<u>.</u>
00556 1 0 0 EFFLUENT GROSS VALUE	* CABUMES !!		東京大学をお 第二十二年 第二十二年 東京大学を 第二十二年 東京大学を 第二十二年 東京大学を 第二十二年 東京大学を 第二十二年 東京大学を 第二十二年 東京大学を 第二十二年 東京大学を 第二十二年 東京大学を 第二十二年 東京大学を 第二十二年 東京大学を 第二十二年 東京大学を 第二十二年 東京大学を 第二十二年 東京大学を 東京大学	*****		2.0415.0 0 € MO AV.G	51510 DAILY MX	MG/L		ONCE/ BATICH	GRAB	
PHOSPHORUS, TOTAL (AS P)	SAMPLE MEASUREMENT	*****	****	**	****	0.5	0.5	19	0	1/30	GRAB	_
00665 1 0 0	PERMIT: 8		******	4.0	*****	# 10 s	102	MG/L		ONCE/	-GRAB	
EFFLUENT GROSS VALUE	The second secon					MOAVG	TADAILY MX			BATCH	<u> </u>	
COPPER, TOTAL (AS CU)	SAMPLE MEASUREMENT	****	*****	**	****	0.0023	0.0023	19	0	1 / 30	GRAB	
01042 1 0 0 EFFLUENT GROSS VALUE	PERMIT. REQUIREMENT	自由申请申申申	*****	### *	******	1/0 MOZÂVG	. 110 DAILYMX	MG/L		ONCE/ BATCH	GRAB	
IRON, TOTAL (AS FE)	SAMPLE MEASUREMENT	****	******	proje	*****	0.2400	0.2400	19	0	1/30	GRAB	-
01045 1 0 0 EFFLUENT GROSS VALUE	PERMIT TO THE PROPERTY OF THE		**********	****			AU.O	MG/L	, in	ONCE/ BATCH	GRAB	
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	2.550	2.550	03	******	*****	*****	##	0	1 / 30	CALCTO	7
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT:	Reg Mon Mozve	LREGIMONE DYNLYAMD	MGD	******			4924		ONGE/	GALCTO	
EFFEDENT GROSS VALUE		ALIMO AVG.	- ANTEL WINE	L			in the second se	L		23,113	<u> 1.3:</u>	ك
NAME/TITLE PRINCIPAL EXECUTIVE OF			ument and all attachment			Ont		TELEPHO	NE	T	DATE	٦
D. E. Grissette	properly gather of persons who man	nd evaluate the informat lage the system, or those	h a system designed to a ion submitted. Based on n persons directly respons	ny inquiry of the sible for gatheri	person or ng the	Site Vice Pre	sident	100 000				
SITE VICE PRESIDENT	and complete. I a	m aware that there are s	to the best of my knowled ignificant penalties for sul onment for knowing violati	bmitting false in	formation, SIGN	IATURE OF PRINCIP	PAL EXECUTIVE		-8767 MBER		07 13 MO DAY	
TYPED OR PRINTED								ODE				
COMMENTS AND EXPLANATION OF ANY	VIOLATIONS (Refere	nce all attachments h	ere)							•		

PERMITTEE NAME/ADDRESS (Include Fa		Different)			ARGE ELIMINATION SY DNITORING REPORT	•	MAJOR SUBR 01			orm Approve MB No. 2040	
Address P.0, BOX 2000 (INTEROFFICE MOB1F)		- 	TNO	020168		107 G	F - FINAL				
SPRING CITY, TN 37381		- 		T NUMBER	DISCHAR	GE NUMBER	METAL CLEANING	WASTE PO	DND		
Facility TVA - WATTS BAR NUCLEAR F	PLANT						EFFLUENT				
Location RHEA COUNTY			YEAR	MO DA	TORING PERIOD Y YEAR	MO DAY					
Attn: Darrin J. Hutchison, Chem/Enviro	nmental Mor		From 09	11 01		11 30	*** NO DISCHAR	GE	***		
	Thromat High						NOTE: Read Inst	ructions befor	e compl		
PARAMETER		QUAN	ITITY OR LOADING			QUALITY OR CO	NCENTRATION		NO.	FREQUENCY	SAMPLE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS	•	ANALYSIS	ITPE
PH	SAMPLE MEASUREMENT	*****	*****	**	8.1	*****	8.2	12	0	2/30	GRAB
00400 1 0 0	PERMIT REQUIREMENT	*****	******	***	Reg. Mon.	****	Req. Mon.	Su		ONCE/	GRAB
EFFLUENT GROSS VALUE					MINIMUM		MUMIXAM		<u> </u>	BATCH	<u> </u>
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	*****	*****	26	*****	11.0	11.0	19	0	1/30	GRAB
00530 1 0 0	PERMIT	*****	*****	******	*****	30.0	30.0	MG/L		ONCE/	GRAB
EFFLUENT GROSS VALUE	REQUIREMENT	*****	*****			MO AVG	DAILY MX	·		BATCH	
OIL AND GREASE	SAMPLE MEASUREMENT	*****	****	26	****	<5.5	<5.6	19	0	1 / 30	GRAB
00556 1 0 0	PERMIT	******	****	*****	*****	15.0	15.0	MG/L	 	ONCE/	GRAB
EFFLUENT GROSS VALUE	REQUIREMENT	*****	******	1		MØ AVG	DAILY MX			BATCH	
PHOSPHORUS, TOTAL (AS P)	SAMPLE MEASUREMENT	******	****	**	*****	0.2	0.2	19	0	1/30	GRAB
00665 1 0 0	PERMIT	*****	*****	**	****	1.0	1.0	MG/L		ONCE/	GRAB
EFFLUENT GROSS VALUE	REQUIREMENT					MO AVG	DAILY MX			BATCH	
COPPER, TOTAL (AS CU)	SAMPLE MEASUREMENT	*****	*****	**	*****	0.0051	0.0051	19	0	1/30	GRAB
01042 1 0 0	PERMIT	****	*****	***	****	1.0	1.0	MG/L		ONCE/	GRAB
EFFLUENT GROSS VALUE	REQUIREMENT		1.0			MO AVG	DAILY MX			BATCH	7.7
IRON, TOTAL (AS FE)	SAMPLE MEASUREMENT	*****	*****	**	*****	0.3150	0.3150	19	0	1/30	GRAB
01045 1 0 0	PERMIT	*****	*****	****	****	1.0	1.0	MG/L		ONCE/	GRAB
EFFLUENT GROSS VALUE	REQUIRÈMENT		To control of the second			MO AVG	DAILY MX			BATCH	Grand
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	2.600	2.600	03	****	******	******	***	0	1/30	CALCTD
50050 1 0 0	PERMIT	Dog Man	Dog Mar	MGD	*****	*****	*****	****	 	ONCE/	CALCTD
EFFLUENT GROSS VALUE	REQUIREMENT	Req. Mon MO AVG	Req. Mon DAILY MX	INGD						24 hrs	CALCID
NAME/TITLE PRINCIPAL EXECUTIVE OF						(ho		TELEPHO	ONE	1	ATE
D. E. Grissette	properly gather a	and evaluate the informat	th a system designed to a ion submitted. Based on a e persons directly respon	my inquiry of the	person or	Site Vice Pr					
SITE VICE PRESIDENT	information, the i	information submitted is , am aware that there are s	to the best of my knowled ignificant penalties for su onment for knowing violat	dge and belief, (bmitting false in	true, accurate, SIGN	ATURE OF PRINC	IPAL EXECUTIVE		-8767		07 13
TYPED OR PRINTED	The state of the s					FICER OR AUTHO		NU CODE	MBER	YEAR	MO DAY
COMMENTS AND EXPLANATION OF ANY	VIOLATIONS (Refer	ence all attachments h	iere)								

E2-19 of 22

EPA Form 3320-1 (REV 3/99)

Previous editions may be used

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

PERMITTEE NAME/ADDRESS (Include F. Name TVA - WATTS BAR NUCLE		Different) .—			ARGE ELIMINATION SY DNITORING REPORT		MAJOR SUBR 01			rm Approve //B No. 2040		
Address P.0, BOX 2000 (INTEROFFICE MOB1F)		-	TNO	020168		107 G	F - FINAL					
SPRING CITY, TN 37381		· 		T NUMBER	DISCHAR	GE NUMBER	METAL CLEANING	WASTE PO	DND			
Facility TVA - WATTS BAR NUCLEAR	PLANT			MONI	TORING REDIOD		EFFLUENT					
Location RHEA COUNTY			YEAR	MO DA	TORING PERIOD YEAR	MO DAY						
Attn: Darrin J. Hutchison, Chem/Enviro	anmonial Mar		From 10	05 01		05 31	*** NO DISCHA	RGE	***			
Attn: Damn J. Hutchisch, Chembenvic	minental Mail				حليتضحا لت		NOTE: Read Ins	structions befor	re comple	eting this for	m.	
PARAMETER			ITITY OR LOADING			QUALITY OR CO			NO. EX	FREQUENC OF ANALYSIS	T	VIPLE YPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MUMIXAM	UNITS		,	}	
PH	SAMPLE MEASUREMENT	****	*****	**	8.1	*****	8.1	12	0	2/31	GF	RAB
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	***	Reg. Mon. MINIMUM	WAGARAA	Reg. Mon.	su		ONCE/ BATCH	GI	RAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	*****	******	26	*****	9.6	9.6	19	0	1/31	GF	RAB
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	*****	******	*****	30.0 MO AVG	30.0 DAILY MX	MG/L		ONCE/ BATCH	GF	RAB
OIL AND GREASE	SAMPLE MEASUREMENT	*****	*****	26	*****	<5.6	<5.6	19	0	1/31	GF	RAB
00556 1 0 0	PERMIT REQUIREMENT	*****	****	******	******	15.0	15.0	MG/L		ONCE	GF	RAB
EFFLUENT GROSS VALUE		*****	****	ļ <u>.</u>		MO AVG				BATCH	4	
PHOSPHORUS, TOTAL (AS P)	SAMPLE MEASUREMENT	****	*****	**	*****	0.3	0.3	19	0	1 / 31	GF	RAB
00665 1 0 0	PERMIT	*****	****	**	****	1.0	1.0	MG/L		ONCE/	GF	RAB
EFFLUENT GROSS VALUE	REQUIREMENT					MO AVG	DAILY MX	<u> </u>		BATCH		
COPPER, TOTAL (AS CU)	SAMPLE MEASUREMENT	*****	******	**	******	0.0017	0.0017	19	0	1/31	GF	RAB
01042 1 0 0	PERMIT	*****	*****	****	****	1.0	1.0	MG/L		ONCE/	GF	₹AB
EFFLUENT GROSS VALUE	REQUIREMENT					MO AVG	DAILY MX		1. 1	BATCH		İ
IRON, TOTAL (AS FE)	SAMPLE MEASUREMENT	*****	****	69	*****	0.3200	0.3200	19	0	1 / 31	GF	RAB
01045 1 0 0	PERMIT	*****	****	****	****	1.0	1.0	MG/L		ONCE/	GF	RAB
EFFLUENT GROSS VALUE	REQUIREMENT					MO AVG		1	1	BATCH		
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	1.700	1.700	03	******	******	*****	**	0	1/31	CAL	.CTD
50050 1 0 0	PERMIT	Reg. Mon	Reg. Mon	MGD	*****	****	****	2000		ONCE/	CAL	.CTD
EFFLUENT GROSS VALUE	REQUIREMENT	MO AVG	DAILY MX							24 hrs		
NAME/TITLE PRINCIPAL EXECUTIVE OF	FICER Certify under pe	naily of law that this doc	ument and all attachment h a system designed to a	s were prepare	ed under my Hed personnel	(I)	4	TELEPH	ONE		DATE	
D. E. Grissette	property gather a	nd evaluate the informat	ion submitted. Based on r a persona directly respons	my inquiry of th	e person or	Van de	/ U					}
SITE VICE PRESIDENT	information, the ir and complete. I a	nformation submitted is , m aware that there are a	to the best of my knowled ignificent penalties for su coment for knowing violat	ige and belief, bmitting felse i	true, accurate, Information, SIGN		CIPAL EXECUTIVE		5-8767	11	07	13
TYPED OR PRINTED	urauding ora pos	जन्मपुर्व जिल्ह्याच्याच्या	MINGIN IN MONTH AIGH	101 13 .	· OF	FICER OR AUTH	UKIZED AGENT	AREA NU	JMBER	YEAR	МО	DAY
COMMENTS AND EXPLANATION OF ANY	VIOLATIONS (Refere	nce all attachments h	ere)									
	-											

Address P.O. BOX 2000 (INTEROFFICE MOB1F)			TNO	020168		107 G	F - FINAL					
SPRING CITY, TN 37381			PERMI	T NUMBER	DISC	HARGE NUMBE	R METAL CLEANIN	IG WASTE	POND			
Facility TVA - WATTS BAR NUCLEAR	<u> </u>			MON	ITORING PEF	ZIOD	======================================					
Location RHEA COUNTY		- —	_	MO DA	X TE	AR MO DAY	NO DISCHA	ARGE [
Attn: Darrin J. Hutchison, Chem/Enviro	nmental Mgr		From 11	02 01	1 To 1	1 02 28	NOTE: Read in	_	 etare como	datina this f	nem	
PARAMETER		QUAN	TITY OR LOADING		T	QUALITY OF	R CONCENTRATION		NO.	FREQUEN		MPLE
	\rightarrow	AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERA	GE MAXIMUM	LINE	EX	OF ANALYSI	8 TY	YPE
				UNIIS				UNIT	8	<u> </u>		
PH	SAMPLE MEASUREMENT	*****	*****	**	7.9	****	7.9	12	0	2 / 28	GR	RAB
00400 1 0 0	PERMIT	*****	*****	***	Reg. Mo	n. ****	** Reg. Mon	su	13.5	ONCE	/ GF	RAB
EFFLUENT GROSS VALUE	REQUIREMENT				MINIMU	M	MAXIMUN	A L		BATC	4	
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	*****	*****	26	*****	15.0	15.0	19	0	1 / 28	GR	RAB
00530 1 0 0	PERMIT	******	*****	*****	******	30.0	30.0	MG/		ONCE	GF	RAB
EFFLUENT GROSS VALUE	REQUIREMENT	*****	*****			MO A	VG DAILY M			BATC	t	
OIL AND GREASE	SAMPLE MEASUREMENT	*****	*****	26	*****	<5.3	<5.3	19	0	1 / 28	GR	RAB
00556 1 0 0	PERMIT	******	*****	******	*****	15.0	15.0	MG/	L 1941	ONCE	GR	RAB
EFFLUENT GROSS VALUE	REQUIREMENT	****	******		TO EXPERT	MOA		<u> </u>	2.0	BATC		
PHOSPHORUS, TOTAL (AS P)	SAMPLE MEASUREMENT	*****	*****	**	*****	0.3	0.3	19	0	1 / 28	GR	RAB
00665 1 0 0	PERMIT	*****	******	'esis	*****	1.0	1.0	MG/	-	ONCE	GR	RAB
EFFLUENT GROSS VALUE	REQUIREMENT				. 1	MO A	VG DAILY M			BATCI	1 .	
COPPER, TOTAL (AS CU)	SAMPLE MEASUREMENT	******	*****	**	******	0.005	0.0050	19	0	1 / 28	GR	RAB
01042 1 0 0	PERMIT	****	*****	***	*****	1.0	1.0	MG/		ONCE	GR	RAB
EFFLUENT GROSS VALUE	REQUIREMENT					MO A	VG DAILY MX	(BATCH		
IRON, TOTAL (AS FE)	SAMPLE MEASUREMENT	******	*****	**	******	0.180	0.1800	19	0	1 / 28	GR	RAB
01045 1 0 0	PERMIT	*****	*****	***	****	1.0	1.0	MGR		ONCE	GR	RAB
EFFLUENT GROSS VALUE	REQUIREMENT					MO AV		€ .	\$	BATCH		
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	1.300	1.300	03	*****	******	**	**	0	1 / 28	CAL	CTD
50050 1 0 0	PERMIT	Reg. Mon	Reg. Mon	MGD	****	*******	** ****			ONCE	CAL	CTD
EFFLUENT GROSS VALUE	REQUIREMENT	MO AVG	DAILY MX		- V					24 hrs	<u>. </u>	!
NAME/TITLE PRINCIPAL EXECUTIVE OF	FICER II Certify under pe	enalty of law that this doc	ument and all attachment	s were prepare	d under my	$\overline{}$		TELE	PHONE		DATE	
D. E. Grissette	direction or supe	ryision in accordance wit	h a system designed to a ion submitted. Based on n	ssure that qual	lifted personnel	ALI)						
SITE VICE PRESIDENT	persons who mar information, the b and complete. I a	nage the system, or those information submitted is , am aware that there are s	e persons directly respons to the best of my knowled ignificant penalties for sul	sible for gather lge and bellef, i braitting felse le	ing the true, accurate,		e President RINCIPAL EXECUTIVE	423	365-8767	11	07	13
TYPED OR PRINTED	including the pos	ssibility of fine and impriso	onment for knowing violati	ons.	•		UTHORIZED AGENT	AREA	NUMBER	YEAR	MO	DAY
COMMENTS AND EXPLANATION OF ANY			· 					CODE				

E2-21 of 22

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

MAJOR

SUBR 01

Form Approved.

Page 1 of 1

OMB No. 2040-0004

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)
Name TVA - WATTS BAR NUCLEAR PLANT

EPA Form 3320-1 (REV 3/99)

Previous editions may be used

Name TVA - WATTS BAR NUCL Address P.0. BOX 2000 (INTEROFFICE MOB1F)	Facility Name/Location If	Different)	TNO	020168	NITORII	NG REPORT	107 G	MAJOR SUBR 01 F - FINAL		Of	rm Approved. MB No. 2040-(
SPRING CITY, TN 37381 Facility TVA - WATTS BAR NUCLEAR Location RHEA COUNTY Attn: Damin J. Hutchison, Chem/Envi		 	PERMI YEAR From 11	MONIMO DAY	TORIN	G PERIOD		METAL CLEANING V EFFLUENT *** NO DISCHARG NOTE: Read instr	3E	***	atina this form	1.
PARAMETER		QUANT AVERAGE	MAXIMUM	UNITS	MI	NIMUM	QUALITY OR CO	DICENTRATION	UNITS	NO. EX	FREQUENCY OF ANALYSIS	8/

PARAMETER		QUANTITY OR LOADING QUALITY OR CONCENTRATION							NO. FREQUENCY		Y SAMPLE	
	$\mid \times \mid$	AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS	EX	OF ANALYSIS	TYPE	
				UNIIO				UNIIS	<u> </u>			
PH ·	SAMPLE MEASUREMENT	*****	******	**	8.4	*****	8.5	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	******	2.5	2.5	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	*****	****	**	****	0.0022	0.0022	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	*****	****	**	****	<0.1000	<0.1000	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	0.036	0.036	03	*****	*****	*****	**	0	16 / 30	CALCTD	
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	Req. Mon MO AVG	Reg. Mon DAILY MX	MGD	*****	******	*****	****		ONCE/ 24 hrs	CALCTD	

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	It 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		TE	LEPHONE		DATE	
D. E. Grissette	property 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	Site Vice President	400	0.7. 0.7.0			
SITE VICE PRESIDENT	Information, the information submitted is , to the best of my knowledge and belief, true, accurate, and complete. I am ewere that there are significent penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPAL EXECUTIVE	423	365-8767	11	07	13
TYPED OR PRINTED	arcuming the possibility of the and imprisorment for knowing violations.	OFFICER OR AUTHORIZED AGENT	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.