

## DISCHARGE MONITORING REPORT

Tennessee Valley Authority

## Browns Ferry Nuclear Plant

Athens, Alabama 35611

DSN 101: DIFFUSER DISCHARGE  
STRUCTURE

MONTH OCTOBER 19 84

NPDES # AL0022080

PARAM	FLOW	pH	AMBIENT RIVER TEMPERATURE
AVG	-	6.0	-
MAX,	-	9.0	-
UNITS	MGD	UNITS	-
FREQ	CONT	1/WK	2/, 6/ CONT
DATE	1	2534	68.2
	2	2534	7.7 68.0
	3	2534	68.4
	4	2534	68.9
	5	2534	69.7
	6	2534	69.7
	7	2534	69.2
	8	2534	69.0
	9	2534	7.5 69.3
	10	2534	69.3
	11	2534	69.9
	12	2534	70.7
	13	2534	71.2
	14	2534	71.4
	15	2534	71.0
	16	2534	7.7 71.2
	17	2534	71.5
	18	2534	71.8
	19	2218	72.0
	20	2218	71.9
	21	2218	71.4
	22	2218	70.8
	23	2218	7.5 70.5
	24	2218	70.1
	25	2218	71.0
	26	2218	70.8
	27	2218	71.1
	28	2218	71.0
	29	2218	71.6
	30	2218	7.5 72.2
	31	2218	72.4
MAX	2534	7.5-7.7	72.4
AVG			

50-259  
50-260  
50-296

8412100512 841031  
PDR ADOCK 05000259  
R PDR

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

Original signed by  
Martin E. Rivers

NOV 29 1984

Signature of Responsible Official

Date \_\_\_\_\_

wing  
J25  
0/1

## DISCHARGE MONITORING REPORT

Tennessee Valley Authority

Browns Ferry Nuclear Plant

Athens, Alabama 35611

DSN 102: SEDIMENTATION POND  
EFFLUENT

MONTH OCTOBER 19 84

NPDES # AL0022080

PARAM	FLOW	pH	O&G	TSS								
AVG	-	6.0	15	30								
MAX	-	9.0	20	100								
UNITS	MGD	UNITS	MG/L	MG/L								
FREQ	1/BATCH	1/BATCH	1/BATCH	2/BATCH								
DATE	1											
	2											
	3											
	4	NO FLOW										
	5											
	6											
	7											
	8											
	9											
	10	NO FLOW										
	11											
	12											
	13											
	14											
	15											
	16											
	17	NO FLOW										
	18											
	19											
	20											
	21											
	22											
	23	NO FLOW										
	24											
	25											
	26											
	27											
	28											
	29											
	30											
	31	NO FLOW										
MAX												
AVG	NO FLOW											

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Signature of Responsible Official \_\_\_\_\_ Date \_\_\_\_\_

## ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

## DISCHARGE MONITORING REPORT

Tennessee Valley Authority

Browns Ferry Nuclear Plant

Athens, Alabama 35611

DSN 103: UNITS 1, 2, AND 3  
TURBINE BUILDING SUMP

MONTH OCTOBER 19 84

NPDES # AL0022080

PARAM	FLOW	O&G	TSS									
AVG	-	15	20									
MAX	-	30	100									
UNITS	MGD	MG/L	MG/L									
FREQ	1/WK	1/WK	1/WK									
DATE	1											
	2											
	3											
	4	0.55	<5.0	12								
	5											
	6											
	7											
	8											
	9											
	10											
	11											
	12	0.22	<5.0	13								
	13											
	14											
	15											
	16											
	17											
	18	0.19	<5.0	12								
	19											
	20											
	21											
	22											
	23											
	24											
	25	0.16	<5.0	40								
	26											
	27											
	28											
	29											
	30											
	31											
MAX	0.55	<5.0	40									
AVG	0.28	<5.0	19									

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Signature of Responsible Official \_\_\_\_\_ Date: \_\_\_\_\_



## DISCHARGE MONITORING REPORT

Tennessee Valley Authority

Browns Ferry Nuclear Plant

Athens, Alabama 35611

SN 104: LIQUID RADWASTE SYSTEM

MONTH OCTOBER 19 84

NPDES # AL0022080

PARAM	FLOW	O&G	TSS	TOTAL Cu	TOTAL Fe	TSS *					
AVG	-	15	30	-	-	30					
MAX,	-	20	100	1.0	1.0	100					
UNITS	MGD	MG/L	MG/L	MG/L	MG/L	MG/L					
FREQ	1/BATCH	2/WK	2/WK	1/BATCH	1/BATCH	2/WK					
DATE	1										
	2	0.012	6.3	45							
	3	0.033									
	4										
	5	0.073	<5.0	5.6							
	6	0.148									
	7	0.086	<5.0			2.9					
	8	0.045	<5.0			1.2					
	9	0.034	<5.0	4.9							
	10	0.084									
	11										
	12	0.010	<5.0	11							
	13										
	14	0.011	7.3			8.1					
	15										
	16	0.012	4.4	15							
	17										
	18	0.111	<5.0	8.7							
	19										
	20	0.011				<1.0					
	21										
	22	0.039	5.4	5.2							
	23	0.069	<5.0			8.2					
	24	0.083									
	25	0.074	<5.0	4.1							
	26	0.085				21					
	27	0.034									
	28	0.012				13					
	29	0.074	<5.0	<1.0							
	30	0.114									
	31	0.084	13			6.1					
MAX	0.148	13	45			13					
AVG	0.058	<5.8	<11			<7.7					

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\*GRAB SAMPLES.

Signature of Responsible Official \_\_\_\_\_

Date \_\_\_\_\_

## DISCHARGE MONITORING REPORT

Tennessee Valley Authority

Browns Ferry Nuclear Plant

Athens, Alabama 35611

DSN 105: RESIDUAL HEAT REMOVAL

MONTH OCTOBER 19 84

NPDES # AL0022080

PARAM	FLOW	TEMP											
AVG	-	-											
MAX	-	-											
UNITS	MGD	°F											
FREQ	1/WK	1/WK											
DATE	1	129											
	2	24.5	160										
	3	24.5	106										
	4	24.5	162										
	5	24.5	132										
	6	24.5	154										
	7	24.5											
	8												
	9												
	10	*	*										
	11												
	12												
	13												
	14												
	15												
	16												
	17												
	18	*	*										
	19												
	20												
	21												
	22												
	23												
	24	24.5	155										
	25	12.2	81										
	26												
	27												
	28												
	29												
	30												
	31	24.5	160										
MAX	24.5	162											
AVG													

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\*TEMPERATURE INADVERTENTLY NOT TAKEN.

Signature of Responsible Official \_\_\_\_\_ Date: \_\_\_\_\_

## DISCHARGE MONITORING REPORT

Tennessee Valley Authority

Browns Ferry Nuclear Plant

Athens, Alabama 35611

SN 106: CONDENSER COOLING WATER  
PUMP STATION SUMP

MONTH OCTOBER 19 84

NPDES # AL0022080

PARAM	FLOW	O&G	TSS										
AVG	-	15	30										
MAX	-	20	100										
UNITS	MGD	MG/L	MG/L										
FREQ	1/WK	1/WK	1/WK										
DATE	1												
	2												
	3												
	4												
	5	0.029	<5.0	2.5									
	6												
	7												
	8												
	9												
	10												
	11												
	12	0.040	<5.0	10									
	13												
	14												
	15												
	16												
	17												
	18												
	19	0.036	<5.0	4.5									
	20												
	21												
	22												
	23												
	24												
	25												
	26	0.036	<5.0	3.2									
	27												
	28												
	29												
	30												
	31												
MAX	0.040	<5.0	10										
AVG	0.035	<5.0	5.1										

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Signature of Responsible Official \_\_\_\_\_ Date \_\_\_\_\_



## DISCHARGE MONITORING REPORT

Tennessee Valley Authority

Browns Ferry Nuclear Plant

Athens, Alabama 35611

SN 107: UNIT 3 CONTROL  
BUILDING DRAIN

MONTH OCTOBER 19 84

NPDES # AL0022080

PARAM	FLOW	O&G	TSS										
AVG	-	15	30										
MAX	-	20	100										
UNITS	MGD	MG/L	MG/L										
FREQ	1/WK	1/WK	1/WK										
DATE	1												
	2												
	3												
	4												
	5	NO FLOW											
	6												
	7												
	8												
	9												
	10												
	11												
	12	0.0031	<5.0	13									
	13												
	14												
	15												
	16												
	17												
	18												
	19	0.003	<5.0	18									
	20												
	21												
	22												
	23	0.002	<5.0	12									
	24												
	25												
	26												
	27												
	28												
	29												
	30	NO FLOW											
	31												
MAX	0.003	<5.0	18										
AVG	0.002	<5.0	14										

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Signature of Responsible Official \_\_\_\_\_ Date: \_\_\_\_\_

## DISCHARGE MONITORING REPORT

Tennessee Valley Authority

Browns Ferry Nuclear Plant

Athens, Alabama 35611

SN 108: UNITS 1 AND 2 DIESEL  
GENERATOR BUILDING SUMP

MONTH OCTOBER 19 84

NPDES # AL0022080

PARAM	FLOW	O&G	TSS										
AVG	-	15	30										
MAX:	-	20	100										
UNITS	MGD	MG/L	MG/L										
FREQ	1/WK	1/WK	1/WK										
DATE	1												
	2												
	3	NO FLOW											
	4												
	5												
	6												
	7												
	8												
	9												
	10	NO FLOW											
	11												
	12												
	13												
	14												
	15												
	16												
	17	NO FLOW											
	18												
	19												
	20												
	21												
	22	0.0007	5.3	23									
	23												
	24												
	25												
	26												
	27												
	28												
	29												
	30	NO FLOW											
	31												
MAX	0.0007	5.3	23										
AVG	0.0001	5.3	23										

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Signature of Responsible Official \_\_\_\_\_ Date: \_\_\_\_\_



## DISCHARGE MONITORING REPORT

Tennessee Valley Authority

SN 109: UNIT 3 DIESEL GENERATOR  
BUILDING SUMPBrowns Ferry Nuclear Plant  
Athens, Alabama 35611

MONTH OCTOBER 19 84

NPDES # AL0022080

PARAM	FLOW	O&G	TSS										
AVG	-	15	30										
MAX	-	20	100										
UNITS	MGD	MG/L	MG/L										
FREQ	1/WK	1/WK	1/WK										
DATE	1												
	2												
	3	NO FLOW											
	4												
	5												
	6												
	7												
	8												
	9												
	10												
	11												
	12	NO FLOW											
	13												
	14												
	15												
	16												
	17	NO FLOW											
	18												
	19												
	20												
	21												
	22												
	23	NO FLOW											
	24												
	25												
	26												
	27												
	28												
	29												
	30												
	31												
MAX													
AVG	NO FLOW												

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Signature of Responsible Official \_\_\_\_\_ Date: \_\_\_\_\_

## DISCHARGE MONITORING REPORT

Tennessee Valley Authority

Browns Ferry Nuclear Plant

Athens, Alabama 35611

DSN 110: UNITS 1 AND 2 OFFICE  
BUILDING DRAIN

MONTH OCTOBER 19 84

NPDES # AL0022080

PARAM	FLOW	O&G	TSS										
AVG	-	15	30										
MAX	-	20	100										
UNITS	MGD	MG/L	MG/L										
FREQ	1/WK	1/WK	1/WK										
DATE	1												
	2												
	3 NO FLOW												
	4												
	5												
	6												
	7												
	8												
	9												
	10 NO FLOW												
	11												
	12												
	13												
	14												
	15												
	16												
	17 NO FLOW												
	18												
	19												
	20												
	21												
	22												
	23 NO FLOW												
	24												
	25												
	26												
	27												
	28												
	29												
	30												
	31												
MAX													
AVG	NO FLOW												

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Signature of Responsible Official \_\_\_\_\_ Date: \_\_\_\_\_

## DISCHARGE MONITORING REPORT

Tennessee Valley Authority

Browns Ferry Nuclear Plant

Athens, Alabama 35611

DSN 111: SEWAGE TREATMENT PLANT

MONTH OCTOBER 19 84NPDES # AL0022080

PARAM	FLOW	BOD <sub>5</sub>	TSS									
AVG	-	30	30									
MAX	-	45	45									
UNITS	MGD	MG/L	MG/L									
FREQ	5/WK	1/WK	1/WK									
DATE	1	0.028										
	2	0.035										
	3	0.037	26	43								
	4	0.041										
	5	0.035										
	6	0.036										
	7	0.027										
	8	0.033										
	9	0.033										
	10	0.034										
	11	0.036	30	31								
	12	0.044										
	13	0.032										
	14	0.029										
	15	0.026										
	16	0.036										
	17	0.040										
	18	0.040	24	18								
	19	0.063										
	20	0.034										
	21	0.030										
	22	0.035										
	23	0.041										
	24	0.041	51	140								
	25	0.042										
	26	0.035										
	27	0.044										
	28	0.036										
	29	0.025										
	30	0.0008										
	31	0										
MAX	0.063	51	140									
AVG	0.034	33	58									

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A NOTIFICATION OF NONCOMPLIANCE IS ATTACHED.

Signature of Responsible Official \_\_\_\_\_ Date: \_\_\_\_\_



NOTIFICATION OF NONCOMPLIANCE WITH EFFLUENT LIMITATIONS - NPDES PERMIT  
NO. AL0022080 - BROWNS FERRY NUCLEAR PLANT

Description of the discharge--Discharge No. 111 - Sewage treatment plant (package plant) effluent. Grab samples collected on October 24 had BOD<sub>5</sub> and total suspended solids (TSS) concentrations of 51 and 140 mg/L, respectively, exceeding the permit limitation of 45 mg/L for these parameters.

Cause and period of the noncompliance--The noncompliances were caused by overloading of the treatment system. The effluent appeared cloudy when the sample was collected, indicating that solids were being washed over the clarifier weir and were being entrained in the plant discharge. Samples collected on October 18 had BOD<sub>5</sub> and TSS concentrations of 24 and 18 mg/L, respectively, and the treatment plant was decommissioned on November 1. Therefore, the period of noncompliance was less than 14 days.

Steps taken to reduce, eliminate, and prevent recurrence of the noncomplying discharge--The shutdown of the package treatment plant began on October 29 and was completed on November 1. All plant sanitary wastes are now being directed to the new lagoon treatment system.

NOV 21 1984