

ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
DISCHARGE MONITORING REPORT

Tennessee Valley Authority  
Browns Ferry Nuclear Plant  
Athens, Alabama 35611

DSN 101: DIFFUSER DISCHARGE  
STRUCTURE

MONTH NOVEMBER 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	2218		71.4					
	2	2218		69.2					
	3	2218		66.6					
	4	2218		65.7					
	5	1584		66.0					
	6	1584	7.6	64.6					
	7	1584		63.7					
	8	1584		63.0					
	9	1584		62.6					
	10	1584		62.5					
	11	1584		59.9					
	12	1584		57.7					
	13	1584	7.7	56.4					
	14	1584		56.9					
	15	1584		57.7					
	16	1584		57.5					
	17	1901		56.0					
	18	1901		56.0					
	19	1901		56.1					
	20	1901	7.8	54.0					
	21	1901		52.0					
	22	1901		51.2					
	23	1901		52.0					
	24	1901		52.2					
	25	1901		52.9					
	26	1901		53.3					
	27	1901	7.8	54.0					
	28	1901		53.2					
	29	1901		52.0					
	30	1901		51.4					
	31								
MAX	2218		71.4						
AVG	1817	7.6-7.8	58.3						

B501080645 841130  
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  
M. Paul Schmierbach

Signature of Responsible Official

Date

1025  
01/11  
Rec'd  
w/aut. file

ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

DISCHARGE MONITORING REPORT

Tennessee Valley Authority

Browns Ferry Nuclear Plant

Athens, Alabama 35611

DSN 102: SEDIMENTATION POND  
EFFLUENT

MONTH NOVEMBER 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													
	5													
	6													
	7													
	8													
	9													
	10													
	11													
	12													
	13			<5.0	4.7									
	14													
	15													
	16		7.53		21									
	17													
	18													
	19													
	20													
	21	0.65	3.27		24									
	22													
	23													
	24													
	25													
	26													
	27													
	28													
	29													
	30													
	31													
MAX				24										
AVG	0.65	3.3-7.5	<5.0	17										

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

NOTIFICATION OF NONCOMPLIANCE WITH EFFLUENT LIMITATIONS - NPDES PERMIT  
NO. A10022080 - BROWNS FERRY NUCLEAR PLANT

Description of the discharge--Discharge No. 102 - Sedimentation pond effluent to the greenhouse discharge canal. A sample of the greenhouse discharge canal 25 feet downstream of the sedimentation pond discharge (the point of compliance for pH) collected at 1400 on November 21 had a pH value of 3.27 standard units (s.u.). The minimum pH limit for this discharge is 6.0 s.u.

Cause and period of the noncompliance--The cause of the noncompliance is not known. The discharge from the sedimentation pond was acidic (pH of 3.14). However, discharges having approximately the same pH and a greater rate of flow have occurred prior to and after the noncompliance without causing the pH to fall below 6.0 s.u. at the point of compliance. Samples collected at 1200 on November 16 and 1605 on November 21 had pH values of 7.53 and 7.42 s.u., respectively. Therefore, the period of noncompliance was less than 124 hours.

Steps taken to reduce, eliminate, and prevent recurrence of the noncomplying discharge--The discharge from the sedimentation pond was terminated after the noncomplying sample was collected. Since the cause of the noncompliance is not known, no corrective measures are planned at this time.

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

MONTH NOVEMBER 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	0.156	<5.0	36											
	2														
	3														
	4														
	5														
	6														
	7														
	8	0.167	11	19											
	9														
	10														
	11														
	12														
	13														
	14														
	15	0.096	<5.0	14											
	16														
	17														
	18														
	19														
	20														
	21														
	22														
	23	0.192	<5.0	8.0											
	24														
	25														
	26														
	27														
	28														
	29	0.173	5.1	43											
	30														
	31														
MAX	0.192	11	43												
AVG	0.157	<6.2	24												

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ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
DISCHARGE MONITORING REPORT

Tennessee Valley Authority  
Browns Ferry Nuclear Plant  
Athens, Alabama 35611

DSN 104: LIQUID RADWASTE SYSTEM

MONTH NOVEMBER 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	MCD	MG/L	MG/L	MG/L	MG/L	MG/L					
FREQ	1/BATCH	2/WK	2/WK	1/BATCH	1/BATCH						
DATE	1	0.080	<5.0	47							
	2	1.226									
	3	0.120									
	4	0.079									
	5	0.034	13	1.2							
	6	0.046	16				8.4				
	7										
	8	0.012	<5.0	8.2							
	9										
	10	0.011	7.5				7.2				
	11										
	12	0.010	5.3	9.8							
	13										
	14		<5.0				7.4				
	15	0.089	6.0	14							
	16	0.010	12				18				
	17										
	18	0.010	11				6.9				
	19										
	20	0.092	<5.0	8.9							
	21	0.114									
	22	0.074		<1.0							
	23	0.051	<5.0				8.8				
	24	0.155									
	25	0.115	<5.0	8.8							
	26	0.126	<5.0	11							
	27										
	28	0.030	<5.0				11				
	29	0.011	<5.0	30							
	30										
	31										
MAX	1.226	16	47			18					
AVG	0.119	<7.2	<14			9.7					

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Signature of Responsible Official: \_\_\_\_\_ Date: \_\_\_\_\_  
ADEM Form 43 3/84

ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

DISCHARGE MONITORING REPORT

Tennessee Valley Authority

Browns Ferry Nuclear Plant

Athens, Alabama 35611

DSN 105: RESIDUAL HEAT REMOVAL

MONTH NOVEMBER 19 84

NPDES # AL0022080

PARAM	FLOW	TEMP												
AVG	-	-												
MAX	-	-												
UNITS	MGD	°F												
FREQ	1/WK	1/WK												
DATE	1													
	2													
	3													
	4													
	5													
	6	24.5	149											
	7													
	8													
	9													
	10													
	11													
	12													
	13													
	14	24.5	160											
	15													
	16													
	17													
	18													
	19													
	20													
	21	NO FLOW												
	22													
	23													
	24													
	25													
	26													
	27													
	28	NO FLOW												
	29													
	30													
	31													
MAX	24.5	160												
AVG	24.5	155												

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ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

DISCHARGE MONITORING REPORT

Tennessee Valley Authority

Browns Ferry Nuclear Plant

Athens, Alabama 35611

DSN 106: CONDENSER COOLING WATER  
PUMP STATION SUMP

MONTH NOVEMBER 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	0.029	<5.0	6.3										
	3													
	4													
	5													
	6													
	7													
	8													
	9	0.029	<5.0	2.3										
	10													
	11													
	12													
	13													
	14													
	15													
	16	0.055	<5.0	2.1										
	17													
	18													
	19													
	20													
	21													
	22													
	23	0.024	<5.0	4.7										
	24													
	25													
	26													
	27													
	28													
	29													
	30	0.096	<5.0	2.4										
	31													
MAX	0.096	<5.0	4.7											
AVG	0.047	<5.0	1.6											

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DISCHARGE MONITORING REPORT

Tennessee Valley Authority  
Browns Ferry Nuclear Plant  
Athens, Alabama 35611

DSN 107: UNIT 3 CONTROL  
BUILDING DRAIN

MONTH NOVEMBER 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	NO FLOW											
	3												
	4												
	5												
	6												
	7												
	8												
	9	NO FLOW											
	10												
	11												
	12												
	13												
	14												
	15												
	16	NO FLOW											
	17												
	18												
	19												
	20	NO FLOW											
	21												
	22												
	23	NO FLOW											
	24												
	25												
	26												
	27	NO FLOW											
	28												
	29												
	30	NO FLOW											
	31												
MAX													
AVG	NO FLOW												

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DISCHARGE MONITORING REPORT

Tennessee Valley Authority

Browns Ferry Nuclear Plant

Athens, Alabama 35611

DSN 108: UNIT 1 AND 2 DIESEL  
GENERATOR BUILDING SUMP

MONTH NOVEMBER 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	NO FLOW												
	3													
	4													
	5													
	6													
	7													
	8													
	9	NO FLOW												
	10													
	11													
	12													
	13													
	14													
	15													
	16	NO FLOW												
	17													
	18													
	19													
	20	NO FLOW												
	21													
	22													
	23	NO FLOW												
	24													
	25													
	26													
	27	NO FLOW												
	28													
	29													
	30	NO FLOW												
	31													
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 109: UNIT 3 DIESEL GENERATOR BUILDING SUMP

MONTH NOVEMBER 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	NO FLOW												
	3													
	4													
	5													
	6													
	7													
	8													
	9	NO FLOW												
	10													
	11													
	12													
	13													
	14													
	15													
	16	NO FLOW												
	17													
	18													
	19													
	20													
	21													
	22													
	23	NO FLOW												
	24													
	25													
	26													
	27													
	28													
	29													
	30	NO FLOW												
	31													
MAX														
AVG	NO FLOW													

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ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

DISCHARGE MONITORING REPORT  
Tennessee Valley Authority

Browns Ferry Nuclear Plant  
Athens, Alabama 35611

DSN 110: UNITS 1 AND 2 OFFICE  
BUILDING DRAIN

MONTH NOVEMBER 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	NO FLOW													
	3														
	4														
	5														
	6														
	7														
	8														
	9	NO FLOW													
	10														
	11														
	12														
	13														
	14														
	15														
	16														
	17														
	18														
	19														
	20														
	21														
	22														
	23	NO FLOW													
	24														
	25														
	26														
	27														
	28														
	29														
	30	NO FLOW													
	31														
MAX															
AVG	NO FLOW														

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DISCHARGE MONITORING REPORT

Tennessee Valley Authority

Browns Ferry Nuclear Plant

Athens, Alabama 35611

DSN 111: SEWAGE TREATMENT PLANT

MONTH NOVEMBER 19 84

NPDES # 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												
	2	NO FLOW											
	3												
	4												
	5												
	6												
	7												
	8												
	9	NO FLOW											
	10												
	11												
	12												
	13												
	14												
	15												
	16	NO FLOW											
	17												
	18												
	19												
	20												
	21												
	22												
	23	NO FLOW											
	24												
	25												
	26												
	27												
	28												
	29												
	30	NO FLOW											
	31												
MAX													
AVG	NO FLOW												

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

Date \_\_\_\_\_