

ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
DISCHARGE MONITORING REPORT

Tennessee Valley Authority
Browns Ferry Nuclear Plant
Athens, Alabama 35611

DSN 101: DIFFUSER DISCHARGE
STRUCTURE

MONTH DECEMBER 19 84

NPDES # AL0022080

PARAM	FLOW	pH	AMBIENT RIVER TEMP	DOWNSTREAM RIVER TEMP	DOWNSTREAM RIVER TEMP	DOWNSTREAM RIVER TEMP	TEMP RISE	
AVG	-	6.0	-	24-HOUR AVG MAX	6-HOUR AVG MAX	INST HOURLY MAX	24-HOUR AVG MAX	
MAX	-	9.0	-	90.0	92.0	93.0	10.0	
UNITS	MGD	UNITS	-	°F	°F	°F	°F	
FREQ	CONT	1/WK	2/, 6/ CONT	3/, 6/ CONT	3/, 6/ CONT	3/, 6/ CONT	4/, 6/ CONT	
DATE	1	1901		51.4			52.8	1.3
	2	1901		51.5			*	*
	3	1901		51.7			*	*
	4	1901	7.3	50.0			*	*
	5	1901		48.8			*	*
	6	1901		48.0			*	*
	7	1901		45.2			47.9	3.0
	8	1901		46.2			49.5	4.0
	9	1901		47.2			52.1	5.3
	10	1584		48.7			51.8	3.4
	11	1584	7.1	48.8			50.8	1.6
	12	1584		48.7			50.8	2.6
	13	1584		50.1			51.8	2.3
	14	1584		51.1			52.6	1.5
	15	1584		51.6			53.4	2.2
	16	1584		52.0			55.5	4.0
	17	1584		52.8			56.0	3.5
	18	1584	7.5	53.1			56.7	3.8
	19	1584		53.6			58.0	4.8
	20	1901		54.1			58.6	5.0
	21	1901		54.8			59.5	5.2
	22	1584		55.0			59.8	5.0
	23	1901		53.9			59.0	5.4
	24	1901		53.9			60.4	6.7
	25	1901		53.5			57.8	4.3
	26	1901	7.4	52.0			58.0	6.3
	27	1901		52.9			58.1	5.7
	28	1901		54.0			58.4	4.9
	29	1901		54.8			60.0	5.8
	30	1901		55.6			60.7	5.8
	31	1901		56.2			61.8	5.9
	MAX	1901		56.2			61.8	6.7
	AVG	1788	7.1-7.5	51.7			55.8	4.2

8502060486 841231
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 *DATA NOT AVAILABLE.

Original signed by
Martin F. Rivers

Signature of Responsible Official _____

Date _____

FEB 1 1985

1825
di

ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
DISCHARGE MONITORING REPORT
Tennessee Valley Authority
Browns Ferry Nuclear Plant
Athens, Alabama 35611

DSN 102: SEDIMENTATION POND
EFFLUENT

MONTH DECEMBER 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			<5.0	2.9								
	11	0.075	7.6		33								
	12												
	13												
	14												
	15												
	16												
	17												
	18												
	19												
	20												
	21												
	22												
	23												
	24												
	25												
	26												
	27												
	28												
	29												
	30												
	31												
MAX				33									
AVG	0.075	7.6-7.6	<5.0	18									

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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 DECEMBER 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													
	6													
	7	0.216	<5.0	21										
	8													
	9													
	10													
	11													
	12													
	13	0.288	<5.0	10										
	14													
	15													
	16													
	17													
	18													
	19													
	20	0.114	<5.0	7.2										
	21													
	22													
	23													
	24													
	25													
	26													
	27	0.114	9.7	2.4										
	28													
	29													
	30													
	31													
MAX	0.288	9.7	21											
AVG	0.183	<6.2	10											

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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 104: LIQUID RADWASTE SYSTEM

MONTH DECEMBER 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					
DATE	1	0.012	17			14				
	2	0.033								
	3	0.011	5.9	11						
	4	0.104								
	5	0.073								
	6	0.012	6.6	12						
	7	0.012	<5.0				9.8			
	8	0.033								
	9									
	10	0.012	12	16						
	11	0.040								
	12	0.080	<5.0				11			
	13	0.052	5.9	9.3			13			
	14	0.068								
	15	0.045	17				20			
	16	0.034								
	17	0.012	6.2	16						
	18	0.034								
	19	0.046	19	23						
	20									
	21	0.045	<5.0	13						
	22	0.034								
	23	0.043	<5.0	6.4						
	24									
	25									
	26	0.012	<5.0	5.6						
	27									
	28	0.012	19	11						
	29									
	30									
	31									
MAX	0.104	19	23			20				
AVG	0.037	<9.5	12			14				

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 *GRAB SAMPLES.

Signature of Responsible Official _____ Date _____

ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

DISCHARGE MONITORING REPORT

Tennessee Valley Authority

Browns Ferry Nuclear Plant

Athens, Alabama 35611

DSN 105: RESIDUAL HEAT REMOVAL

MONTH DECEMBER 19 84

NPDES # AL0022080

PARAM	FLOW	TEMP											
AVG	-	-											
MAX	-	-											
UNITS	MGD	°F											
FREQ	1/WK	1/WK											
DATE	1												
	2												
	3												
	4												
	5												
	6	6.12	163										
	7												
	8												
	9												
	10												
	11												
	12												
	13	NO FLOW											
	14												
	15												
	16												
	17												
	18												
	19												
	20												
	21	NO FLOW											
	22												
	23												
	24												
	25												
	26												
	27												
	28	NO FLOW											
	29												
	30												
	31												
MAX	6.12												
AVG	1.60	163											

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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 106: CONDENSER COOLING WATER
PUMP STATION SUMP

MONTH DECEMBER 19 84

NPDES # AL0022080

PARAM	FLOW	COG	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													
	6													
	7	0.029	<5.0	4.2										
	8													
	9													
	10													
	11													
	12													
	13													
	14	0.043	<5.0	10										
	15													
	16													
	17													
	18													
	19													
	20													
	21	0.043	<5.0	8.2										
	22													
	23													
	24													
	25													
	26													
	27													
	28	0.043	<5.0	2.7										
	29													
	30													
	31													
MAX	0.043	<5.0	10											
AVG	0.040	<5.0	6.3											

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

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 35602

DSN 107: UNIT 3 CONTROL
BUILDING DRAIN

MONTH DECEMBER 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	NO FLOW							
	5								
	6								
	7								
	8								
	9								
	10								
	11	0.011	<5.0	5.5					
	12								
	13								
	14								
	15								
	16								
	17								
	18	NO FLOW							
	19								
	20								
	21								
	22								
	23								
	24								
	25	NO FLOW							
	26								
	27								
	28								
	29								
	30								
	31								
MAX	0.011								
AVG	0.003	<5.0	5.5						

I certify under penalty of law that this document and all attachments were prepared under the direction or supervision of a person who has signed this statement and who, at the time the statement was signed, was the responsible official of the reporting party. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature of Responsible Official _____

Date _____

ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
DISCHARGE MONITORING REPORT

Tennessee Valley Authority
Browns Ferry Nuclear Plant
Athens, Alabama 35611

DSN 108: UNIT 1 AND 2 DIESEL
GENERATOR BUILDING SUMP

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

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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 109: UNIT 3 DIESEL GENERATOR
BUILDING SUMP

MONTH DECEMBER 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	NO FLOW																	
	5																		
	6																		
	7																		
	8																		
	9																		
	10																		
	11	NO FLOW																	
	12																		
	13																		
	14																		
	15																		
	16																		
	17																		
	18																		
	19																		
	20																		
	21	NO FLOW																	
	22																		
	23																		
	24																		
	25																		
	26																		
	27																		
	28	NO FLOW																	
	29																		
	30																		
	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 DECEMBER 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	NO FLOW											
	5												
	6												
	7												
	8												
	9												
	10												
	11	NO FLOW											
	12												
	13												
	14												
	15												
	16												
	17												
	18												
	19												
	20												
	21	NO FLOW											
	22												
	23												
	24												
	25												
	26												
	27												
	28	NO FLOW											
	29												
	30												
	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 111: SEWAGE TREATMENT PLANT

MONTH DECEMBER 19 84

NPDES # AL0022080

PARAM	FLOW	BOD ₅	TSS										
AVG	-	30	30										
MAX	-	45	45										
UNITS	MGD	MG/L	MG/L										
FREQ	5/WK	1/WK	1/WK										
DATE	1												
	2												
	3												
	4	NO FLOW											
	5												
	6												
	7												
	8												
	9												
	10												
	11	NO FLOW											
	12												
	13												
	14												
	15												
	16												
	17												
	18	NO FLOW											
	19												
	20												
	21												
	22												
	23												
	24												
	25	NO FLOW											
	26												
	27												
	28												
	29												
	30												
	31												
MAX													
AVG	NO FLOW												

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