

ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

DISCHARGE MONITORING REPORT

Tennessee Valley Authority

Browns Ferry Nuclear Plant

Athens, Alabama 35611

DSN 101: DIFFUSER DISCHARGE
STRUCTUREMONTH APRIL 19 85NPDES # 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 8506060544 850430 PDR ADOCK 05000259 PDR	1	1267	61.0	61.8	0.0	60.4	0.8
	2	1267	61.0	61.8	0.0	60.4	0.8
	3	1267	61.0	61.8	0.0	60.7	0.8
	4	1267	61.0	61.8	0.0	61.8	0.8
	5	1267	61.2	61.8	0.0	62.0	0.8
	6	1267	7.6	61.2	0.0	62.0	0.8
	7	1267	61.2	61.8	0.0	62.0	0.8
	8	1267	61.2	61.8	0.0	62.0	0.8
	9	1267	61.2	61.8	0.0	62.0	0.8
	10	1267	8.9	61.2	0.0	62.0	0.8
	11	1267	61.2	61.8	0.0	62.0	0.8
	12	1267	61.2	61.8	0.0	62.0	0.8
	13	1267	61.2	61.8	0.0	62.0	0.8
	14	1267	62.9	63.1	0.0	63.3	0.8
	15	1267	63.1	63.2	0.0	63.7	0.8
	16	1267	7.7	63.8	0.0	64.3	0.8
	17	1584	64.8	63.4	0.0	67.1	0.8
	18	1584	66.0	63.4	0.0	68.5	0.8
	19	1584	67.0	67.5	0.0	68.9	0.8
	20	*	68.0	67.8	0.0	69.3	0.8
	21	1584	69.1	68.9	0.0	70.2	0.8
	22	1584	69.3	69.8	0.0	71.1	0.9
	23	1584	7.8	69.3	0.0	71.1	1.3
	24	*	69.3	70.2	0.0	71.1	1.3
	25	1584	70.0	71.0	0.0	71.9	1.3
	26	1584	70.7	72.5	0.0	72.5	2.3
	27	1584	71.4	72.5	0.0	72.5	2.3
	28	1584	71.4	72.5	0.0	72.5	2.3
	29	1584	73.5	73.5	0.0	74.1	2.3
	30	1584	7.8	73.5	0.0	74.1	2.3
	31						
MAX	1584	8.9	73.5	73.5	0.0	74.1	2.3
AVG	1309	7.6-8.9	65.3	65.7	0.0	66.2	1.1

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 E. RiversDate: MAY 28 1985Signature of Responsible Official
ADEM Form 43 3/84

ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

DISCHARGE MONITORING REPORT

Tennessee Valley Authority

Browns Ferry Nuclear Plant

Athens, Alabama 35611

DSN 102: SEDIMENTATION POND
EFFLUENTMONTH APRIL 19 85NPDES # 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											
	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											

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: _____

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 * APRIL 19 85

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	0.346	6.0	8.0								
	5											
	6											
	7											
	8											
	9											
	10											
	11	0.054	<5.0	6.5								
	12											
	13											
	14											
	15											
	16											
	17											
	18	0.060	<5.0	11								
	19											
	20											
	21											
	22											
	23											
	24											
	25	0.065	7.3	7.1								
	26											
	27											
	28											
	29											
	30											
	31											
MAX	0.346	7.3	11									
AVG	0.131	<5.8	8.2									

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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 APRIL 19 85NPDES # 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	0.042	<5.0	13		1.0						
	2	0.030										
	3	0.110										
	4	0.072	13	7.2		18						
	5	0.108										
	6	0.042	<5.0			30						
	7	0.071										
	8	0.139	<5.0	2.8								
	9	0.071										
	10	0.042	<5.0			20						
	11	0.031	<5.0	**								
	12	0.043	<5.0			53						
	13	0.031										
	14	0.031										
	15	0.105	<5.0	14		23						
	16	0.073	<5.0	14								
	17	0.070										
	18	0.053	<5.0	15		30						
	19	0.034										
	20	0.045	5.6			18						
	21	0.073										
	22	0.068	<5.0	<1.0								
	23	0.040										
	24	0.119	<5.0			<1.0						
	25	0.073	<5.0	<1.0								
	26	0.154										
	27	0.105										
	28	0.106										
	29	0.110	<5.0	6.0								
	30	0.114										
	31											
MAX	0.154	13	15			53						
AVG	0.070	<5.6	<8.2			<22						

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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 105: RESIDUAL HEAT REMOVAL

MONTH APRIL 19 85NPDES # AL0022080

PARAM	FLOW	TEMP										
AVG	-	-										
MAX	-	-										
UNITS	MGD	°F										
FREQ	1/WK	1/WK										
DATE	1											
	2											
	3	NO FLOW										
	4											
	5											
	6											
	7											
	8											
	9											
	10	0.288	144									
	11											
	12											
	13											
	14											
	15											
	16											
	17	NO FLOW										
	18											
	19											
	20											
	21											
	22											
	23											
	24											
	25											
	26											
	27	0.288	152									
	28											
	29											
	30											
	31											
MAX	0.288	152										
AVG	0.144	148										

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 _____

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 SUMPMONTH APRIL 19 85

NPDES #AL0022080

PARAM	FLOW	O&G	TSS									
AVG	-	15	30									
MAX	-	20	100									
UNITS	MCD	MG/L	MG/L									
FREQ	1/WK	1/WK	1/WK									
DATE	1											
	2											
	3											
	4											
	5	0.022	<5.0	18								
	6											
	7											
	8											
	9											
	10											
	11											
	12	0.029	<5.0	29								
	13											
	14											
	15											
	16											
	17											
	18											
	19	*										
	20											
	21											
	22											
	23											
	24											
	25											
	26	**										
	27											
	28											
	29											
	30											
	31											
MAX	0.029	<5.0	29									
AVG	0.013	<5.0	24									

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*NO SAMPLE TAKEN. **DISCHARGE DIVERTED TO THE HOLDING POND.

Signature of Responsible Official _____ Date: _____

ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

DISCHARGE MONITORING REPORT

Tennessee Valley Authority

Browns Ferry Nuclear Plant

Athens, Alabama 35611

DSN 107: UNIT 3 CONTROL
BUILDING DRAINMONTH APRIL 19 85NPDES # 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	0.0011	<5.0	3.8								
	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	0.0012	<5.0	3.2								
	24											
	25											
	26											
	27											
	28											
	29											
	30	NO FLOW										
	31											
MAX	0.0012	<5.0	3.8									
AVG	0.0005	<5.0	3.5									

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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 SUMPMONTH APRIL 19 85NPDES # 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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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 APRIL 19 85

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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Signature of Responsible Official _____ Date _____

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 DRAINMONTH APRIL 19 85NPDES # 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	0.0003	<5.0	8.4									
	3												
	4												
	5												
	6												
	7												
	8												
	9	NO FLOW											
	10												
	11												
	12												
	13												
	14												
	15												
	16												
	17	0.0004	<5.0	13									
	18												
	19												
	20												
	21												
	22												
	23	0.0006	<5.0	20									
	24												
	25												
	26												
	27												
	28												
	29												
	30	0.0009	<5.0	9.2									
	31												
MAX	0.0009	<5.0	20										
AVG	0.0004	<5.0	13										

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Signature of Responsible Official _____

Date: _____

ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

DISCHARGE MONITORING REPORT

Tennessee Valley Authority

DSN 111: SEWAGE TREATMENT PLANT

Browns Ferry Nuclear Plant

Athens, Alabama 35611

MONTH APRIL

19 85

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	NO FLOW										
	3											
	4											
	5											
	6											
	7											
	8											
	9											
	10	NO FLOW										
	11											
	12											
	13											
	14											
	15											
	16											
	17	<0.0014										
	18	<0.0014										
	19	0.0025										
	20	0.0020										
	21	0.0025										
	22	0.0032										
	23	0.0055	9.3	13								
	24	0.0240										
	25	0.0240										
	26	0.0179										
	27	0.0128										
	28	0.0128										
	29	*										
	30	*										
	31											
MAX	0.0240											
AVG	0.0092	9.3	13									

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NO DISCHARGE DUE TO REPAIRS.

Signature of Responsible Official _____

Date _____