

DISCHARGE MONITORING REPORT

DSN 101

Tennessee Valley Authority
Brown's Ferry Nuclear PlantMonth October 19 85

NPDES # AL0022080

PARAM	FLOW	pH	Ambient River Temperature	Downstream River Temp.	Downstream River Temp.	Downstream River Temp.	Temperature Rise
AVG	-	-	-	24-hr avg Max	6-hr avg Max	Inst. Hrly Max	24-hr avg Max
MAX	-	6.0-9.0	-	90.0	92.0	93.0	10.0
UNITS	MGD	s.u.	-	°F	°F	°F	°F
FREQ	Cont.	1/wk	2 / 6 / Continuous	3 / 6 / Continuous	3 / 6 / Continuous	3 / 6 / Continuous	4 / 6 / Continuous
1	2217.6	7.73	71.4	71.2	0	71.6	0.4
2	2217.6		70.4	70.9	0	69.7	1.0
3	2217.6		68.1	69.0	0	69.3	1.1
4	2217.6		69.2	69.6	0	70.1	1.3
5	2217.6		69.2	69.6	0	69.8	0.5
6	2217.6		68.6	69.0	0	68.6	0.6
7	2217.6		67.3	67.8	0	67.6	0.4
8	1900.8	7.68	67.0	67.3	0	68.1	0.4
9	1900.8		67.3	67.6	0	68.3	0.4
10	1900.8		68.1	68.6	0	69.4	0.5
11	1900.8		69.5	69.9	0	71.0	0.5
12	1900.8		70.4	71.3	0	72.4	0.9
13	1900.8		70.8	72.3	0	73.5	1.5
14	1900.8		71.2	72.9	0	73.0	1.8
15	1900.8	7.59	71.6	72.7	0	73.2	1.5
16	1900.8		71.6	72.7	0	72.7	1.2
17	1900.8		71.3	72.4	0	72.1	1.1
18	1900.8		70.7	71.6	0	71.7	1.0
19	1900.8		71.0	71.0	0	71.5	0.4
20	1900.8		71.4	71.1	0	71.6	-0.1
21	1900.8		71.8	71.4	0	72.0	-0.1
22	1900.8	7.73	71.8	71.4	0	71.4	-0.3
23	1584.0		71.3	71.1	0	70.9	0
24	1584.0		71.2	70.9	0	70.7	-0.1
25	1584.0		70.8	70.5	0	70.8	-0.2
26	1584.0		70.8	70.5	0	70.3	0
27	1584.0		69.9	69.9	0	69.5	0
28	1900.8		69.1	69.0	0	68.4	0
29	1900.8	7.79	68.2	68.0	0	67.6	-0.1
30	1900.8		67.3	67.0	0	66.7	0.2
31	1900.8		65.9	66.0	0	65.4	0.1
MAX	2217.6	7.79 MAX	71.8	72.9	0	73.5	1.8
AVG	1921.2	7.59 MIN	69.8	70.1	0	70.3	0.5

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

Signature of Responsible Official

Date:

NOV 27 1985

IE25
0/18512090365 851031
PDR ADOCK 05000259
PDR

ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
DISCHARGE MONITORING REPORT

102 Sedimentation Pond

TENNESSEE VALLEY AUTHORITY
BROWNS FERRY NUCLEAR PLANT

MONTH October 19 85

NPDES # AL0022080

PARAM	FLOW	pH	O&G	TSS							
AVG			1.5	30							
MAX		6.0-9.0	20	100							
UNITS	MGPD	S.U.	mg/L	mg/L							
FREQ	1/ Release	1/ Release	1/ Release	2/ Release							
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21	Start of		7.8	5.0							
22	Discharge										
23	10/21/85										
24											
25											
26											
27											
28											
29											
30											
31	*										
MAX		N/A									
AVG	0.146000	N/A	7.8	5.0							

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

DSN 102 - Units 1,2,3 Turbine sump
Station Sumps

TENNESSEE VALLEY AUTHORITY
BROWNS FERRY NUCLEAR PLANT

MONTH October 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								
1											
2											
3	0.112069	<5.0	9.0								
4											
5											
6											
7											
8											
9											
10	0.122742	<5.0	16.7								
11											
12											
13											
14											
15											
16											
17	0.191769	<5.0	7.6								
18											
19											
20											
21											
22											
23											
24	0.209680	<5.0	11.6								
25											
26											
27											
28											
29											
30											
31	0.217235	<5.0	7.4								
MAX	0.217235	<5.0	16.7								
AVG	0.170699	<5.0	10.5								

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

DSN 104 - Liquid Radwaste

TENNESSEE VALLEY AUTHORITY
BROWNS FERRY NUCLEAR PLANT

MONTH October 19 85

NPDES # AL0022080

PARAM	FLOW	O&G	TSS	LDT TSS	LDT O&G	Copper	Iron			
AVG		15	30	30	15					
MAX		20	100	100	20	1.0	1.0			
UNITS	MGD	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L			
FREQ	1/ Batch	2/wk	2/wk	1/ Batch						
1	0.033618									
2	NO	RELEASE								
3	0.051832	<5.0	10.6	19.75	16.6					
4	0.066883									
5	0.033812									
6	0.033812									
7	0.033618	<12.5	11.2	14.0	12.8					
8	0.045299									
9	0.033669									
10	0.043320	9.6	10.2	13.8	6.6					
11	NO	RELEASE								
12	0.031780									
13	0.044098			14.7	11.8					
14	0.040239	<6.0	<1.0							
15	0.033760									
16	0.033812									
17	0.084809	<5.0	<1.0	19.71	<5.0					
18	0.074112									
19	0.034151									
20	0.066832									
21	0.009882	<5.0	3.2	14.6	8.7					
22	0.033618									
23	0.033618									
24	0.033618	<5.0	18.2							
25	0.041647			<5.0						
26	0.109634									
27	0.039734			12.2	5.3					
28	0.033566	<5.0	<1.0							
29	0.011364			21.3	<5.0					
30	0.033618									
31	0.043634	<11.1	11.25	8.5	17.2					
MAX	0.109634	9.6	18.2	21.3	17.2					
AVG	0.040109	<7.1	<7.5	<14.4	<9.9					

*Composite Samples

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 _____

ADEM Form 43 3/84

Date: _____

ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
DISCHARGE MONITORING REPORT

DSN 105 - Residual Heat Removal

Service Water

KENTUCKY VALLEY AUTHORITY
BROWNS FERRY NUCLEAR PLANT

MONTH October 19 85

NPDES # AL0022080

PARAM	FLOW	Temp					
AVG							
MAX							
UNITS	MG/D	°F					
FREQ	1/wk	1/wk					
1							
2	072/2.160	152/77.0					
3							
4							
5							
6							
7							
8							
9	0/4.320	141.4/73.4					
10							
11							
12							
13							
14							
15							
16	5.040/0	76/153					
17							
18							
19							
20							
21							
22							
23	2.16/0.144	82.0/157.0					
24							
25							
26							
27							
28							
29							
30	2.16/0.108	76.0/145.0					
31							
MAX	5.040	157.0					
AVG	3.233	113.3					

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

DSN 106 - Condenser Cooling Water Pump
Station Sump

TENNESSEE VALLEY AUTHORITY
BROWNS FERRY NUCLEAR PLANT

MONTH October 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						
1									
2									
3									
4	0.047520	<5.0	1.0						
5									
6									
7									
8									
9									
10									
11	0.035942	12.3	1.7						
12									
13									
14									
15									
16									
17									
18	0.021600	<5.0	<1.0						
19									
20									
21									
22									
23									
24									
25	0.061714	<5.0	1.4						
26									
27									
28									
29									
30									
31									
MAX	0.061714	12.3	1.7						
AVG	0.041694	<6.0	<1.3						

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

DSN 107 - Unit 3 Control Bldg Drain

TENNESSEE VALLEY AUTHORITY
BROWNS FERRY NUCLEAR PLANT

MONTH October 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						
1	0.000831	<5.0	1.2						
2									
3									
4									
5									
6									
7									
8									
9									
10									
11	0.002134	5.6	3.1						
12									
13									
14									
15	0.001900	<5.0	4.0						
16									
17									
18									
19									
20									
21									
22	0.000800	<5.0	1.1						
23									
24									
25									
26									
27									
28									
29	0.001200	5.0	<1.0						
30									
31									
MAX	0.002134	5.6	4.0						
AVG	0.001373	<5.1	<2.1						

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.

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

ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
DISCHARGE MONITORING REPORT

DSN 108 - Unit 1 & 2 Diesel Generator Sumps

MISSISSIPPI VALLEY AUTHORITY
BROWNS FERRY NUCLEAR PLANT

MONTH October 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								
1											
2	No Flow*										
3											
4											
5											
6	0.000675	6.5	45.36								
7											
8											
9											
10											
11											
12											
13											
14											
15											
16	No Flow*										
17											
18											
19											
20											
21											
22											
23	0.001225	12.2	10.9								
24											
25											
26											
27											
28											
29											
30	No Flow*										
31											
MAX	0.001225	12.2	45.4								
AVG	0.000380	9.4	28.1								

* No discharges were made during this week

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

DSN 109 - Unit 3 Diesel Bldg Sump

TENNESSEE VALLEY AUTHORITY
BROWNS FERRY NUCLEAR PLANT

MONTH October 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								
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 Releases For Month										

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

DSN 110 - Unit 1st Office Bldg Drain

TENNESSEE VALLEY AUTHORITY
BROWNS FERRY NUCLEAR PLANT

MONTH October 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								
1	0.000223	<5.0	21.2								
2											
3											
4											
5											
6											
7											
8	0.000450	16.5	87.7								
9											
10											
11	0.000499	11.4	10.9								
12											
13											
14											
15	0.003080	<5.0	19.2								
16											
17											
18											
19											
20											
21											
22	0.000514	<5.0	7.1								
23											
24											
25											
26											
27											
28											
29	0.000318	<5.0	<1.0								
30											
31											
MAX	0.003080	16.5	87.7								
AVG	0.000847	<8.0	<24.5								

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

DSN 111 - Sewage Treatment Lagoon
Effluent

TENNESSEE VALLEY AUTHORITY
BROWNS FERRY NUCLEAR PLANT

MONTH October 19 85

NPDES # AL0022080

PARAM	FLOW	TSS	BOD								
AVG		30	30								
MAX		45	45								
UNITS	MGD	mg/L	mg/L								
FREQ	5/Wk	1/Wk	1/Wk								
1	0.085968										
2	0.072432										
3	0.060192										
4	0.039600	30.8	21.9								
5											
6											
7	0.024048										
8	0.017856										
9	0.017856										
10	0.031248	31.5	31.9								
11	0.031248										
12											
13											
14	0.017856										
15	0.072432										
16	0.060192										
17	0.060192										
18	0.049248	35.0	20.6								
19											
20											
21	0.039600										
22	0.060192										
23	0.049248										
24	0.101088										
25	0.101088	40.0	25.4								
26											
27											
28	0.049248										
29	0.031248										
30	0.031248	35.5	27.2								
31	0.049248										
MAX	0.101088	40.0	31.9								
AVG	0.050112	34.6	25.4								

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