

ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
DISCHARGE MONITORING REPORT
Tennessee Valley Authority
BROWNS FERRY NUCLEAR PLANT

DSN 101 - Diffuser Discharge
Structure

MONTH October 1986

NPDES # ALOC22080

PARAM	FLOW	pH	Amb. River Temperature	Downstream River Temp.	Downstream River Temp.	Downstream River Temp.	Temperature Rise
AVG	-	6.0	24hr Av Max	24hr Av Max	6hr Average	Hourly Max	24hr Av Max
MAX	-	9.0	---	90.0	92.0	93.0	10.0
UNITS	MGD	s.u.	---	F	F	F	F
FREQ.	Cont.	1/wk	Continuous	Continuous	Continuous	Continuous	Continuous
1	950.4		80.3	80.4	0.0	80.7	0.2
2	633.6		80.1	80.3	0.0	80.3	0.2
3	633.6		79.9	79.8	0.0	80.1	0.0
4	633.6		79.9	79.7	0.0	80.0	-0.1
5	633.6		80.0	79.7	0.0	79.7	-0.1
6	633.6		79.7	79.3	0.0	78.8	0.0
7	633.6	7.3	77.3	77.5	0.0	76.6	0.2
8	950.4		76.3	76.4	0.0	75.7	0.1
9	633.6		74.9	74.9	0.0	74.9	0.2
10	633.6		75.1	74.6	0.0	75.0	0.2
11	633.6		74.1	73.9	0.0	73.2	0.0
12	633.6		73.5	73.3	0.0	72.3	-0.1
13	633.6		72.0	70.8	0.0	70.6	-1.1
14	633.6	7.2	71.6	70.5	0.0	71.7	0.0
15	633.6		71.1	70.6	0.0	70.8	0.1
16	633.6		70.0	70.2	0.0	69.9	0.4
17	633.6		68.9	69.3	0.0	70.0	0.6
18	633.6		69.0	69.3	0.0	70.0	0.4
19	633.6		68.8	69.2	0.0	69.3	0.4
20	633.6		68.5	68.5	0.0	69.0	0.1
21	633.6	7.3	68.3	68.6	0.0	69.3	0.4
22	633.6		68.2	68.7	0.0	68.4	0.5
23	633.6		67.8	67.9	0.0	67.4	0.1
24	633.6		66.4	66.0	0.0	66.0	0.0
25	633.6		66.3	65.8	0.0	66.2	0.0
26	633.6		66.3	66.0	0.0	66.0	0.0
27	633.6		65.8	65.8	0.0	66.1	0.0
28	633.6	7.3	65.8	65.6	0.0	66.8	0.0
29	633.6		66.0	65.6	0.0	65.9	-0.1
30	633.6		66.3	66.2	0.0	66.4	0.1
31	633.6		66.3	66.2	0.0	66.1	0.0
MAX	950.4	7.3	80.3	80.4	0.0	80.7	0.6
AVG	654.0		71.8	71.6	0.0	71.7	0.1
MIN		7.2					

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

Original Signed by
Martin E. Rivers

Date:

NOV 24 1986

B612030678 B61031
PDR ADOCK 05000259
R PDR

IE25
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ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
DISCHARGE MONITORING REPORT
Tennessee Valley Authority
BROWNS FERRY NUCLEAR PLANT

DSN 102 - Sedimentation Pond

MONTH October

1986

NPDES # AL0022080

PARAM	FLOW	pH	O&G	TSS	COMMENTS
AVG	----	MIN. 6.0	15	30	
MAX	----	9.0	20	100	
UNITS	MGD	S.U.	mg/l	mg/l	
REQ.	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					
22					
23					
24					
25					
26					
27					
28					
29					
30					NO RELEASE WAS MADE
31					DURING THE MONTH
MAX					
AVG					
MIN					
TOTAL	0.000000				

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ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
DISCHARGE MONITORING REPORT
Tennessee Valley Authority
BROWNS FERRY NUCLEAR PLANT

DSN 103 - Unit 1,2,3 Turbine
Station Sump

MONTH October 1986 NPDES # AL0022080

PARAM	FLOW	O&G	TSS	COMMENTS
AVG	-----	15	30	
MAX	-----	20	100	
UNITS	MGD	mg/l	mg/l	
FREQ.	1/WEEK	1/WEEK	1/WEEK	
1				
2	0.064629	< 5	10	
3				
4				
5				
6				
7				
8				
9	0.084350	< 5	11	
10				
11				
12				
13				
14				
15				
16	0.125460	< 5	5	
17				
18				
19				
20				
21				
22				
23	0.124657	< 5	4	
24				
25				
26				
27				
28				
29				
30	0.082616	< 5	3	
31				
MAX	0.125460	< 5	11	
AVG	0.096342	< 5	7	

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ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
DISCHARGE MONITORING REPORT
Tennessee Valley Authority
BROWNS FERRY NUCLEAR PLANT

DSN 104 - Liquid Radwaste

MONTH October 1986

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/BATCH	1/BATCH	1/BATCH
1	0.019980						
2	0.063783	11	2				
3	0.059060						
4	0.020090						
5	0.050100						
6	0.061198	< 5	5				
7	0.031469			3	< 5		
8	0.020628						
9	0.019332	< 5	69				
10	0.052568						
11	0.055380						
12	0.011340						
13	0.062580	< 5	12				
14	0.047250			3	< 5		
15	0.061793	< 5	8				
16	0.055042						
17	0.048201						
18	0.056122						
19	0.059860						
20	0.001620	< 5	4				
21	0.053106						
22	0.019873						
23	0.050730	< 5	1				
24	0.047384						
25	0.062202						
26	0.063697						
27	0.049602	< 5	6				
28	0.050946						
29	0.018684			12	< 5		
30	0.050489	< 5	2				
31	0.058558						
MAX	0.063783	11	69	12	< 5		
AVG	0.044602	< 6	12	6	< 5		

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ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
DISCHARGE MONITORING REPORT
Tennessee Valley Authority
BROWNS FERRY NUCLEAR PLANT

DSN 105 - Residual Heat Removal
Service Water

MONTH October 1986 NPDES # AL0022080

PARAM	FLOW	TEMP	COMMENTS
AVG	----		
MAX	----		
UNITS	MGD	°F	
REQ.	1/WEEK	1/WEEK	
1	2.160/0.000	82 /162	
2			
3			
4			
5			
6			
7			
8	2.160/0.072	80 /163	
9			
10			
11			
12			
13			
14			
15	2.160/0.000	75 /154	
16			
17	2.160/0.000	75 /161	
18			
19			
20			
21			
22	0.000/0.000	144 /	
23			
24			
25			
26			
27			
28			
29	0.000/0.000	108 /	
30			
31			
MAX	2.160000	163	
AVG	1.440000	120	

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ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
DISCHARGE MONITORING REPORT
Tennessee Valley Authority
BROWNS FERRY NUCLEAR PLANT

DSN 106 - Condenser Cooling Water
Station Sump

MONTH October 1986 NPDES # AL0022080

PARAM	FLOW	O&G	TSS	COMMENTS
AVG	----	15	30	
MAX	----	20	100	
UNITS	MGD	mg/l	mg/l	
REQ.	1/WEEK	1/WEEK	1/WEEK	
1				
2				
3	NO DISCHARGE			
4				
5				
6				
7				
8				
9				
10	NO DISCHARGE			
11				
12				
13				
14				
15				
16				
17	NO DISCHARGE			
18				
19				
20				
21				
22				
23				
24	NO DISCHARGE			
25				
26				
27				
28				
29				
30				
31	NO DISCHARGE			THIS DISCHARGE HAS BEEN TEMPORARILY REROUTED TO DSN 102
MAX				
AVG	NO DISCHARGE			

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ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
DISCHARGE MONITORING REPORT
Tennessee Valley Authority
BROWNS FERRY NUCLEAR PLANT

DSN 107 - Unit 3 Control Bldg.
Drain

NPDES # AL0022080

MONTH	October	1986		
PARAM	FLOW	O&G	TSS	COMMENTS
AVG	----	15	30	
MAX	----	20	100	
UNITS	MGD	mg/l	mg/l	
REQ.	1/WEEK	1/WEEK	1/WEEK	
1				
2				
3				
4				
5				
6				
7	0.001440	< 5	< 1	
8				
9				
10				
11				
12				
13				
14	0.001440	< 5	< 1	
15				
16				
17				
18				
19				
20				
21	0.001662	< 5	1	
22				
23				
24				
25				
26				
27				
28	0.001440	< 5	1	
29				
30				
31				
MAX	0.001662	< 5	1	
AVG	0.001496	< 5	< 1	

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ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
DISCHARGE MONITORING REPORT
Tennessee Valley Authority
BROWNS FERRY NUCLEAR PLANT

DSN 108 - Diesel Bldg. Sump
Units 1 & 2

MONTH	October	1986	NPDES # AL0022080	
PARAM	FLOW	O&G	TSS	COMMENTS
AVG	----	15	30	
MAX	----	20	100	
UNITS	MGD	mg/l	mg/l	
REQ.	1/WEEK	1/WEEK	1/WEEK	
1	NO RELEASE			
2				
3				
4				
5				
6				
7				
8	NO RELEASE			
9				
10				
11				
12				
13				
14				
15	NO RELEASE			
16				
17				
18				
19				
20				
21				
22	NO RELEASE			
23				
24				
25				
26				
27				
28				
29	NO RELEASE			
30				NO DISCHARGES WERE MADE
31				DURING THE MONTH
MAX				
AVG	NO RELEASE			

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ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
DISCHARGE MONITORING REPORT
Tennessee Valley Authority
BROWNS FERRY NUCLEAR PLANT

DSN 109 - Diesel Bldg. Sump
Unit 3

MONTH	October	1986		NPDES # AL0022080
PARAM	FLOW	U&G	TSS	COMMENTS
AVG	----	15	30	
MAX	----	20	100	
UNITS	MGD	mg/l	mg/l	
REQ.	1/WEEK	1/WEEK	1/WEEK	
1	NO RELEASE			
2				
3				
4				
5				
6				
7				
8	NO RELEASE			
9				
10				
11				
12				
13				
14				
15	NO RELEASE			
16				
17				
18				
19				
20				
21				
22	NO RELEASE			
23				
24				
25				
26				
27				
28				
29	NO RELEASE			
30				NO RELEASES WERE MADE
31				DURING THE MONTH
MAX				
AVG	NO RELEASE			

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ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
DISCHARGE MONITORING REPORT
Tennessee Valley Authority
BROWNS FERRY NUCLEAR PLANT

DSN 110 - Unit 1 & 2 Office
Bldg. Drain

NPDES # AL0022080

MONTH	October	1986		
PARAM	FLOW	O&G	TSS	COMMENTS
AVG	----	15	30	
MAX	----	20	100	
UNITS	MGD	mg/l	mg/l	
REQ.	1/WEEK	1/WEEK	1/WEEK	
1				
2				
3				
4				
5				
6				
7	0.000173	< 5	16	
8				
9				
10				
11				
12				
13				
14	0.000180	< 5	9	
15				
16				
17				
18				
19				
20				
21	0.000393	< 5	18	
22				
23				
24				
25				
26				
27				
28	0.000332	< 5	8	
29				
30				
31				
MAX	0.000393	< 5	18	
AVG	0.000269	< 5	13	

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ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
DISCHARGE MONITORING REPORT
Tennessee Valley Authority
BROWNS FERRY NUCLEAR PLANT

DSN 111 - Sewage Treatment Lagoon

MONTH October 1986

NPDES # AL0022080

PARAM	FLOW	TSS	BOD5	COMMENTS
AVG	-----	90	30	
MAX	-----	-----	45	
UNITS	MGD	mg/l	mg/l	
FREQ.	3/WEEK	2/MONTH	2/MONTH	
1	0.012802			
2	0.017856			
3	0.017856			
4				
5				
6	0.008712	42	19	
7	0.008712			
8	0.005515			
9	0.017856			
10	0.017856			
11				
12				
13	0.060192			
14	0.049248	16	17	
15	0.049248			
16	0.031248			
17	0.031248			
18				
19				
20	0.017856			
21	0.017856			
22	0.024048	14	15	
23	0.017856			
24	0.024048			
25				
26				
27	0.072432	11	12	
28	0.072432			
29	0.060192			
30	0.060192			
31	0.049248			
MAX	0.072432	42	19	
AVG	0.032370	21	16	

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Date: _____

The following discharges were made from the Condenser Tube Pullout Area Sump.

<u>Date</u>	<u>Flow, MGD</u>	<u>pH</u>	<u>O&G</u>	<u>TSS</u>	<u>Gamma Scan</u>
10-10-86	.001293	6.5	<5	<1	0
10-13-86	.001293	6.8	6	3	0
10-28-86	.001293	6.3	<5	1	0