

# ACCELERATED DISTRIBUTION DEMONSTRATION SYSTEM

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       50-296 Browns Ferry Nuclear Power Station, Unit 3, Tennessee    05000296  
 AUTH. NAME                    AUTHOR AFFILIATION  
 LOUDERMILK, A.H.            Tennessee Valley Authority  
 RECIP. NAME                    RECIPIENT AFFILIATION

SUBJECT: "ADEM Discharge Monitoring Rept for Nov 1989."

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EXTERNAL:	EG&G SIMPSON, F		2	2	LPDR	1	1
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NOTES:			5	5			

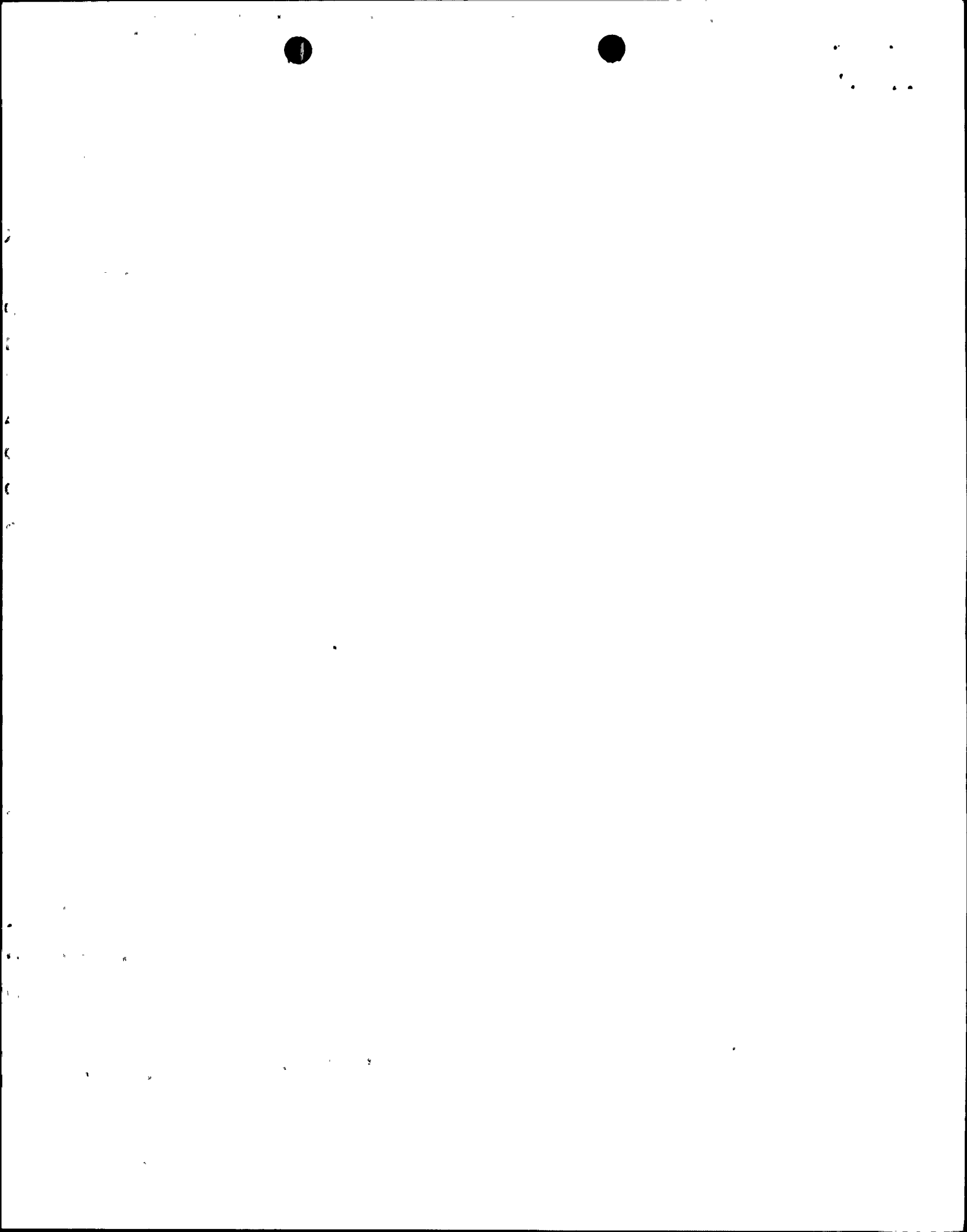
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Date of Report DEC 28 1989

DISCHARGE MONITORING REPORT

NPDES NUMBER: AL0022080

PERMITTEE INFORMATION:

NAME: TENNESSEE VALLEY AUTHORITY

ADDRESS: PSC 1E 50E-C

\_\_\_\_\_

\_\_\_\_\_

FACILITY NAME: BROWNS FERRY NUCLEAR PLANT

FACILITY CONTACT:

NAME: ABRAHAM H. LOUDERMILK, JR.

PHONE: 632-6656

REPORTING PERIOD: NOVEMBER 1 - NOVEMBER 30, 1989

I certify under penalty of law that this discharge monitoring report, required by NPDES Permit Number AL0022080 for the reporting period of November 1 through November 30, 1989 and consisting of pages numbered 1 through 10 and which are dated DEC 22 1989 was prepared under my 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 INDIVIDUAL

DEC 22 1989  
\_\_\_\_\_  
DATE OF SIGNATURE

8912280081 891130  
PDR ADOCK.05000259  
R PDC

JE25  
11

1

1928 8 8 220

1928 8 8 220

1928 8 8 220

ATTACHMENT 1

ADEM DISCHARGE MONITORING REPORT

MONTHLY

MONTH: November, 1989

COMPANY: TVA - Brown's Ferry Nuclear Plant

LOCATION: U.S. Highway 72  
Athens, Alabama 35611

NPDES NO. AL0022080 MAJOR

DSN001										6 Hr Hourly			EFFECTIVE:		
PARAM	Flow	pH	Cl, TA	Amb, RT	DRT	Temp, R	Temp	Temp	Hyd	6/ - Re	port VI	olation	s Only		
AVG	Mon	6.0 min	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2/ 5/ -	Measure	ment Fr	equency		
MAX	Mon	9.0	730	Mon	90 F	10 F	92 F	93 F	0.01		in your	permit.			
FREQ	Cont	1/wk	6/	2/ 5/	1/day	1/day	1/day	1/day	1/wk						
UNITS	MGD	s.u.	PPD		°F	°F	°F	°F	mg/l						
1	633.6			62.9	62.9	.1	0	62.4							
2	633.6			61.7	62.3	.6	0	62.2							
3	633.6			61.0	61.7	.8	0	61.2							
4	633.6			60.1	60.8	.7	0	60.7							
5	633.6			60.1	60.3	.3	0	60.1							
6	633.6			60.8	60.7	-.1	0	61.0							
7	633.6	7.9		61.4	61.1	-0.5	0	61.4							
8	633.6			62.5	61.7	0	0	62.3							
9	633.6			62.5	61.8	-0.8	0	62.3							
10	633.6			61.3	61.2	-0.1	0	60.5							
11	633.6			60.8	60.6	-0.2	0	61.0							
12	633.6			61.2	60.9	-0.3	0	61.3							
13	633.6			61.4	61.2	-0.3	0	61.6							
14	633.6	7.8		61.6	61.4	-0.4	0	61.6							
15	633.6			61.6	61.0	-0.7	0	61.6							
16	633.6			61.6	61.0	-0.6	0	60.5							
17	633.6			58.5	58.3	1.3	0	58.3							
18	633.6			56.7	57.9	1.3	0	57.6							
19	633.6			56.7	57.5	0.9	0	57.3							
20	633.6			56.6	57.0	0.4	0	57.0							
21	633.6	8.2		56.7	56.7	0.1	0	56.9							
22	633.6			56.5	56.6	0.5	0	56.5							
23	633.6			55.4	55.8	1.0	0	55.0							
24	633.6			53.4	54.5	1.2	0	54.2							
25	633.6			52.8	53.9	1.0	0	53.8							
26	633.6			53.3	53.3	0.4	0	53.5							
27	633.6			54.0	53.6	0	0	54.1							
28	633.6	7.9		54.5	54.0	-0.3	0	54.3							
29	633.6			54.3	54.0	0.4	0	53.7							
30	633.6			52.7	53.1	0.7	0	53.0							
31															
MO AVG	633.6	7.9		58.5	58.7	0.3	0	58.7							
MAX	633.6	8.2		62.9	62.9	1.3	0	62.4							

I certify under penalty of law that this document and all attachments were prepared under my 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 261 (B) 1/88



ADEM DISCHARGE MONITORING REPORT

MONTHLY

MONTH: November, 19 89

COMPANY: TVA - Brown's Ferry Nuclear Plant

LOCATION: U.S. Highway 72  
Athens, Alabama 35611

NPDES NO. AL0022080 MAJOR

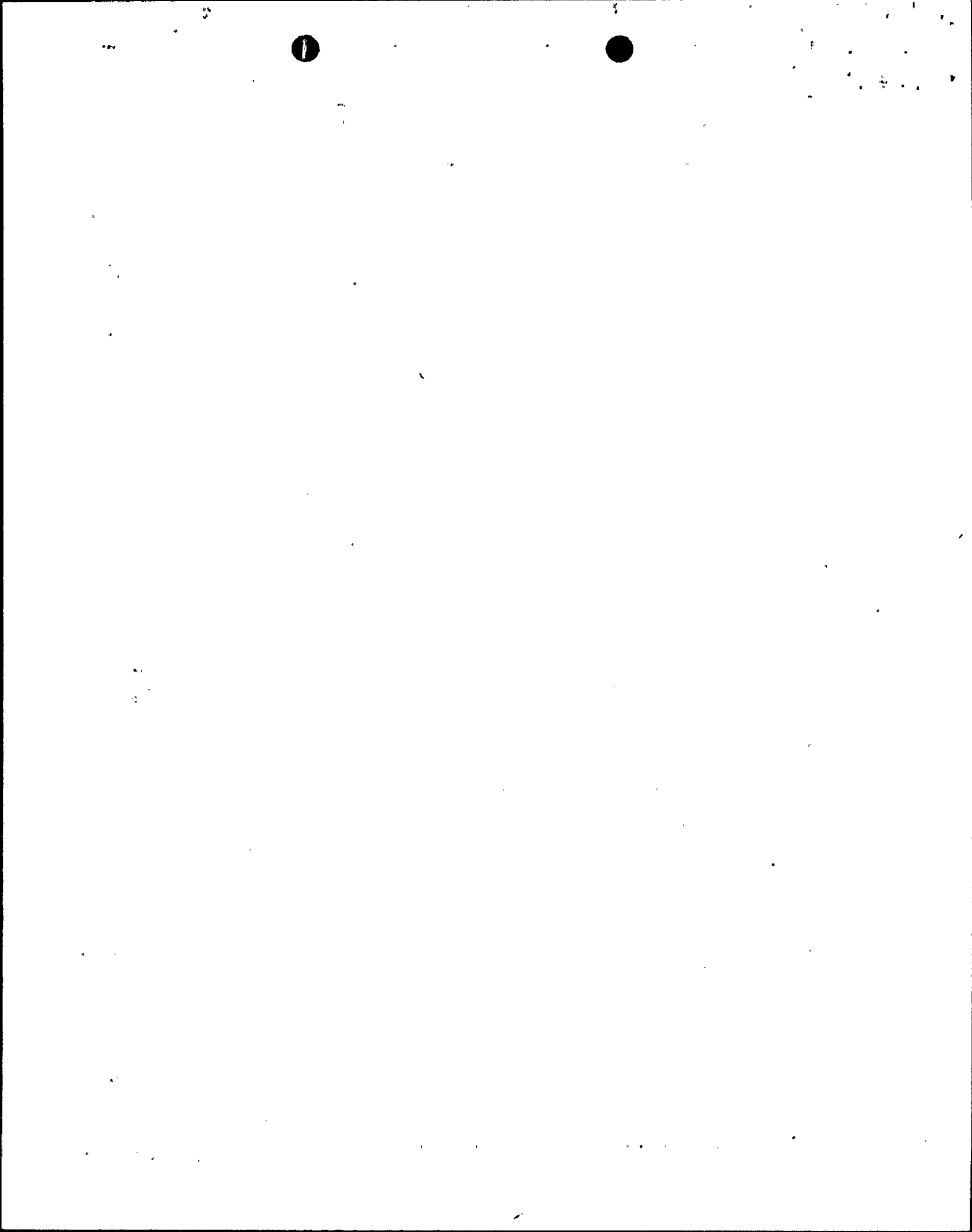
DSN001a (Formerly 103)

EFFECTIVE:

PARAM	Flow	O&G	TSS															
AVG	Mon	15.0	30.0															
MAX	Mon	20.0	100.0															
FREQ	1/wk	1/wk	1/wk															
UNITS	MGD	mg/l	mg/l															
1																		
2																		
3	0.084	<5	5															
4																		
5																		
6																		
7																		
8																		
9																		
10	0.093	<5,<5	7.6	Replicate analysis														
11																		
12																		
13																		
14																		
15																		
16																		
17	0.150	<5	13															
18																		
19																		
20																		
21																		
22																		
23																		
24	0.084	<5	9															
25																		
26																		
27																		
28																		
29																		
30																		
31																		
MO AVG	0.1028	<5	8															
MAX	0.150	<5	13															

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ADEM DISCHARGE MONITORING REPORT

MONTHLY

MONTH: November, 19 89

COMPANY: TVA - Brown's Ferry Nuclear Plant

LOCATION: U.S. Highway 72  
Athens, Alabama 35611

NPDES NO. AL0022080 MAJOR

DSN001b

EFFECTIVE: 10/15/89

PARAM	Flow	O&G	TSS	Cu, T	Pb, T														
AVG	Mon	15.0	30.0	N/A	N/A														
MAX	Mon	20.0	100.0	1.0	1.0	2/													
FREQ	1/Bat	2/wk	2/wk	1/Bat	1/Bat														
UNITS	MGD	mg/l	mg/l	mg/l	mg/l														
1	N/R																		
2	N/R																		
3	.030690	<5	<1																
4	N/R																		
5	.024167																		
6	N/R																		
7	.023805	<5, <5	<1, <1	Replicate Analysis															
8	.023613																		
9	N/R																		
10	.022327	<5	<1																
11	N/R																		
12	.026403	<5	<1																
13	.057245																		
14	.030690																		
15	N/R																		
16	.031316	<5	<1																
17	N/R																		
18	.030912																		
19	N/R	<5	1																
20	.027881																		
21	.031105																		
22	N/R																		
23	.028786	<5	<1																
24	N/R																		
25	N/R																		
26	.030882																		
27	N/R																		
28	.023975	<5	<1																
29	N/R																		
30	N/R																		
31																			
MO AVG	.029587	<5	<1																
MAX	.057245	<5	<1																

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ADEM FORM 261 (B) 1/88



ADEM DISCHARGE MONITORING REPORT

MONTHLY

MONTH: November, 19 89

COMPANY: TVA - Brown's Ferry Nuclear Plant

LOCATION: U.S. Highway 72  
Athens, Alabama 35611

NPDES NO. AL0022080 MAJOR

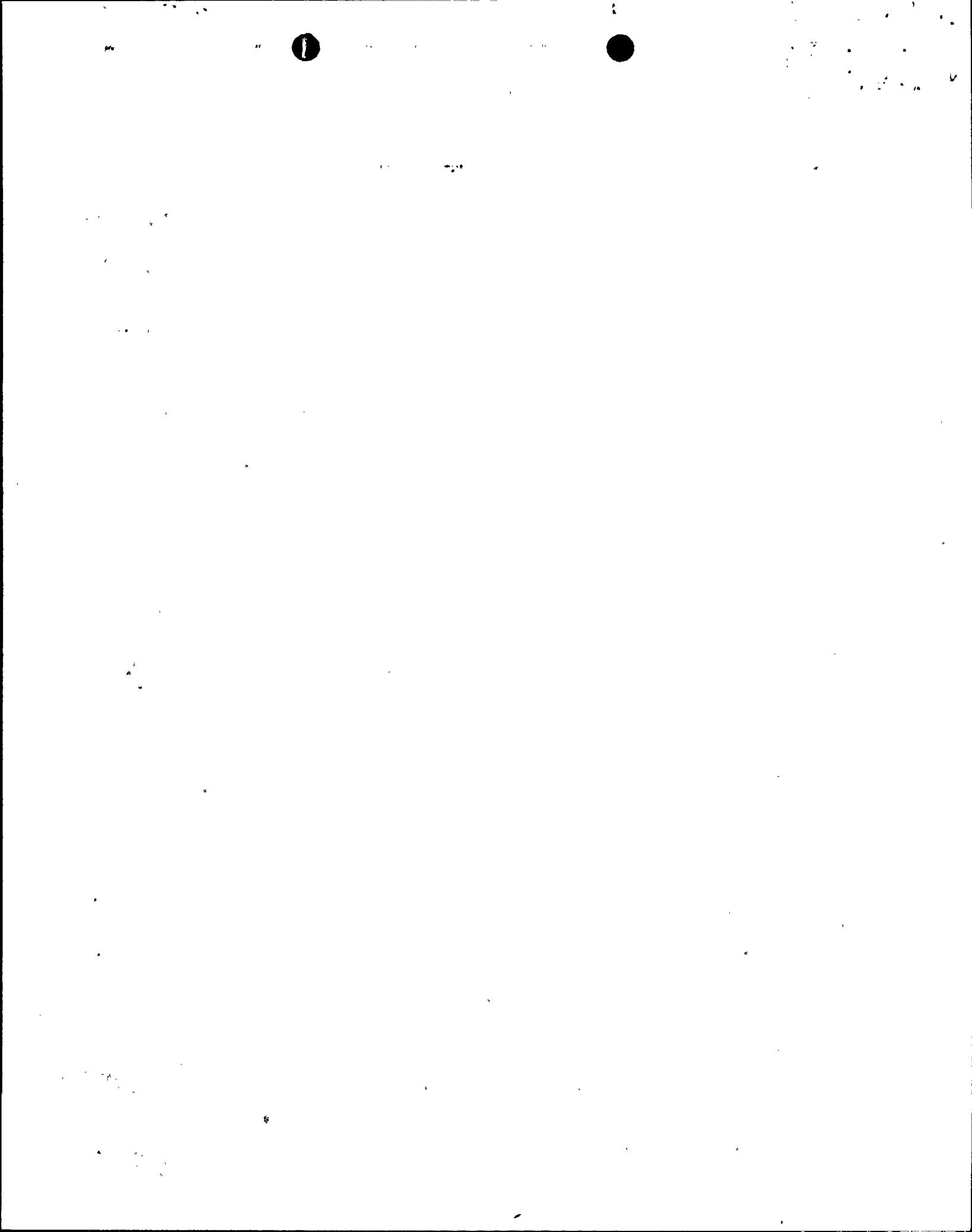
DSN001c (Formerly 107)

EFFECTIVE:

PARAM	Flow	O&G	TSS															
AVG	Mon	15.0	30.0															
MAX	Mon	20.0	100.0															
FREQ	1/wk	1/wk	1/wk															
UNITS	MGD	mg/l	mg/l															
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8	0.00054	<5, <5	123, 120	Replicate Analysis														
9	NO FLOW																	
10																		
11																		
12																		
13																		
14																		
15	NO FLOW																	
16																		
17																		
18																		
19																		
20																		
21	0.00346	<5	21															
22																		
23																		
24																		
25																		
26																		
27																		
28																		
29	NO FLOW																	
30																		
31																		
MO AVG	.002	<5	88															
MAX	.00346	<5	123															

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ADEM DISCHARGE MONITORING REPORT

MONTHLY

MONTH: November, 19 89

COMPANY: TVA - Brown's Ferry Nuclear Plant

LOCATION: U.S. Highway 72  
Athens, Alabama 35611

NPDES NO. AL0022080 MAJOR

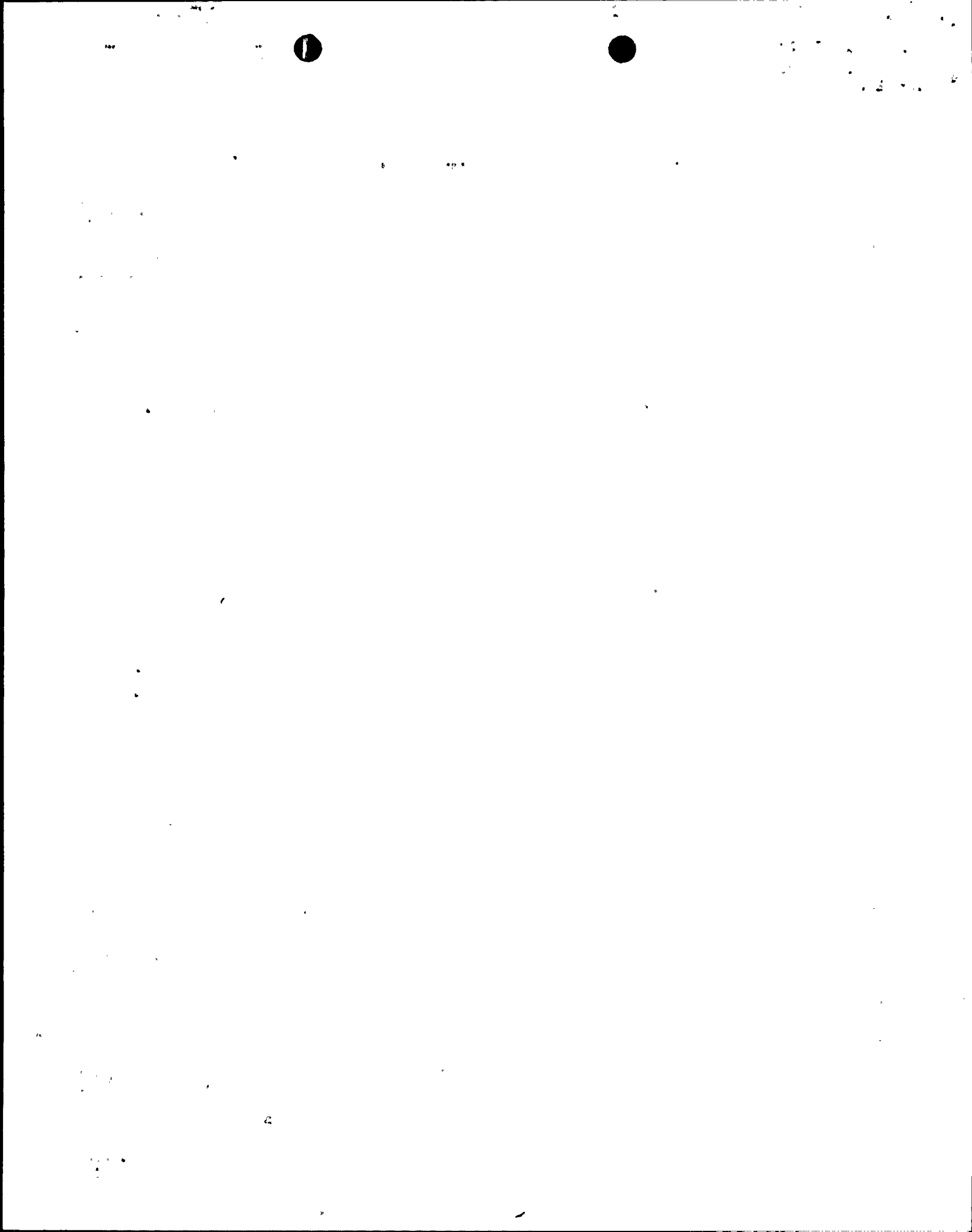
DSN001d (Formerly 110)

EFFECTIVE:

PARAM	Flow	O&G	TSS															
AVG	Mon	15.0	30.0															
MAX	Mon	20.0	100.0															
FREQ	1/wk	1/wk	1/wk															
UNITS	MGD	mg/l	mg/l															
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8	0.00090	<5,<5	15,15	Replicate Analysis														
9																		
10																		
11																		
12																		
13																		
14																		
15	.000386	<5	2															
16																		
17																		
18																		
19																		
20																		
21																		
22	.000158	6	2															
23																		
24																		
25																		
26																		
27																		
28																		
29	.000424	<5	<1															
30																		
31																		
MO AVG	.000467	<5	9															
MAX	.00090	<6	15															

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ADEM DISCHARGE MONITORING REPORT

MONTHLY

MONTH: November, 19 89

COMPANY: TVA - Brown's Ferry Nuclear Plant

LOCATION: U.S. Highway 72  
Athens, Alabama 35611

NPDES NO. AL0022080 MAJOR

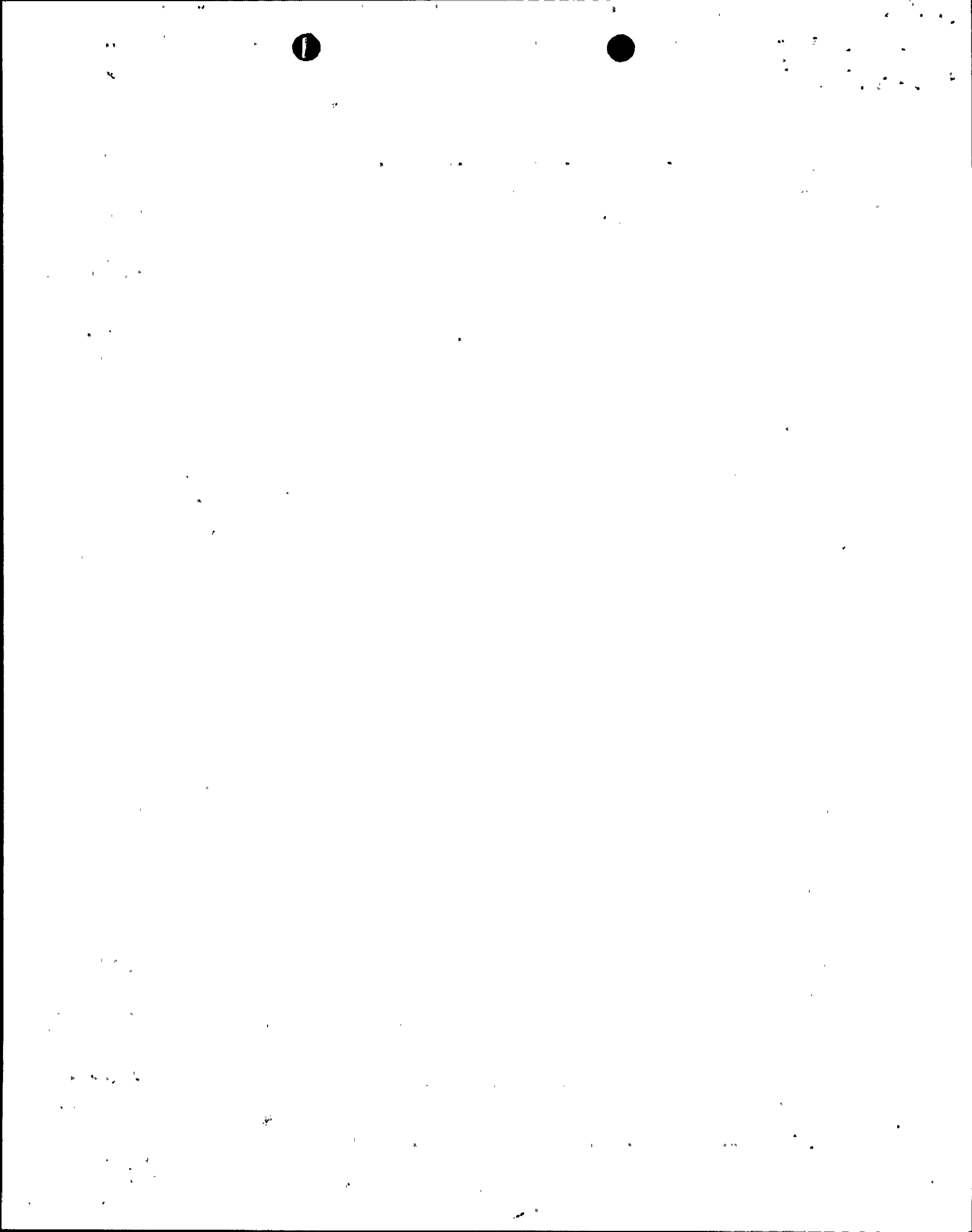
DSN002 (Formerly 102)

EFFECTIVE:

PARAM	Flow	pH	O&G	TSS	Hyd															
AVG	Mon	6.0 min	15.0	30.0	N/A															
MAX	Mon	9.0	20.0	100.0	0.01															
FREQ	1/Batch	1/Bat	1/Bat	2/Bat	1/Bat															
UNITS	MGD	s.u.	mg/l	mg/l	mg/l															
1						POND OUT OF SERVICE FOR REPAIR 11/02/87														
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
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23																				
24																				
25																				
26																				
27																				
28																				
29																				
30																				
31																				
MO AVG																				
MAX																				

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





ADEM DISCHARGE MONITORING REPORT

MONTHLY

MONTH: November, 19 89

COMPANY: TVA - Brown's Ferry Nuclear Plant

LOCATION: U.S. Highway 72  
Athens, Alabama 35611

NPDES NO. AL0022080 MAJOR

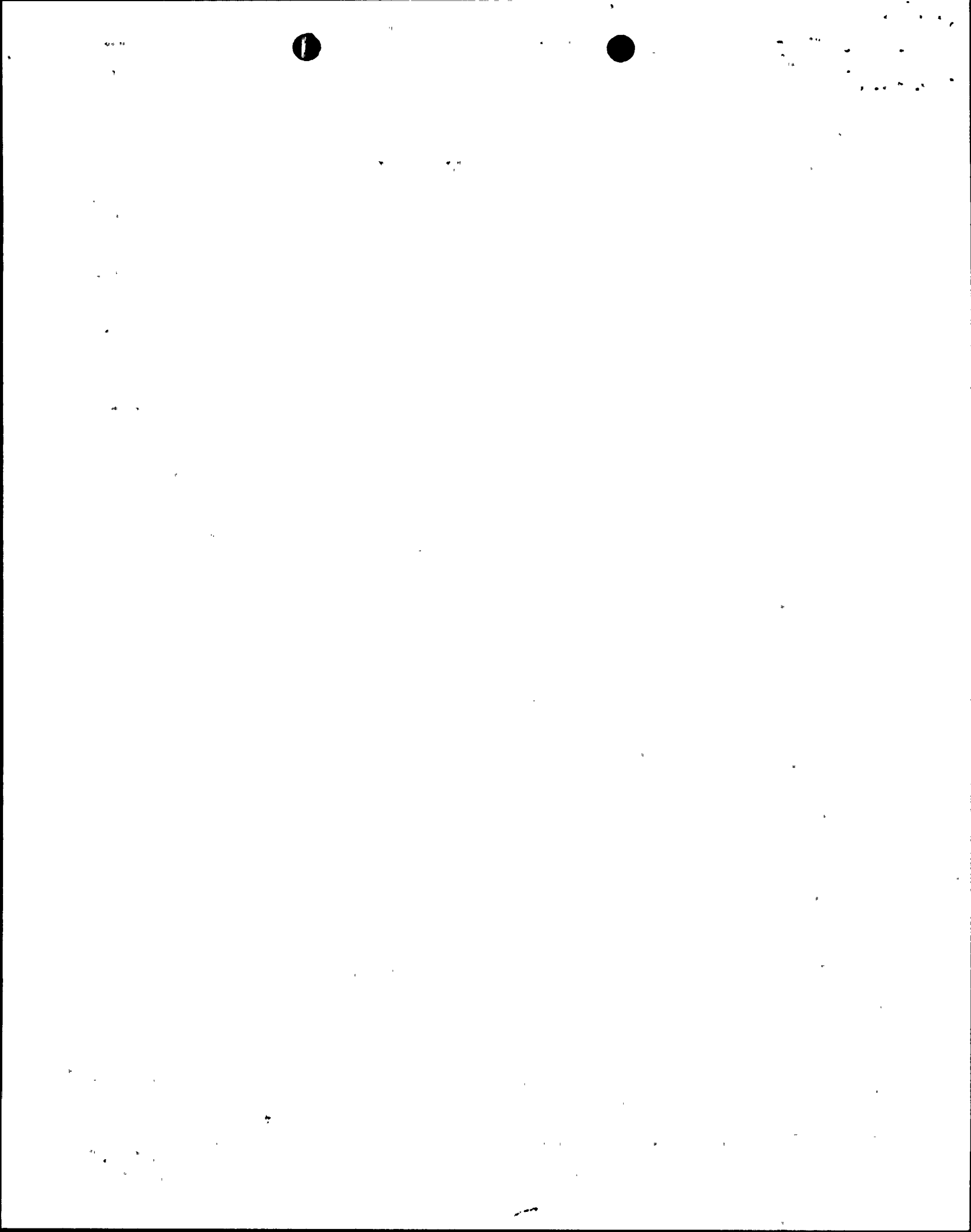
DSN005

EFFECTIVE:

PARAM	Flow	Temp																		
AVG	Mon	Mon																		
MAX	Mon	Mon																		
FREQ	1/wk	1/wk																		
UNITS	MGD	°F																		
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	*																			
31																				
MO AVG	* NO DISCHARGE FOR ENTIRE MONTH																			
MAX																				

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



ADEM DISCHARGE MONITORING REPORT

MONTHLY

MONTH: November, 19 89

COMPANY: TVA - Brown's Ferry Nuclear Plant

LOCATION: U.S. Highway 72  
Athens, Alabama 35611

NPDES NO. AL0022080 MAJOR

DSN011

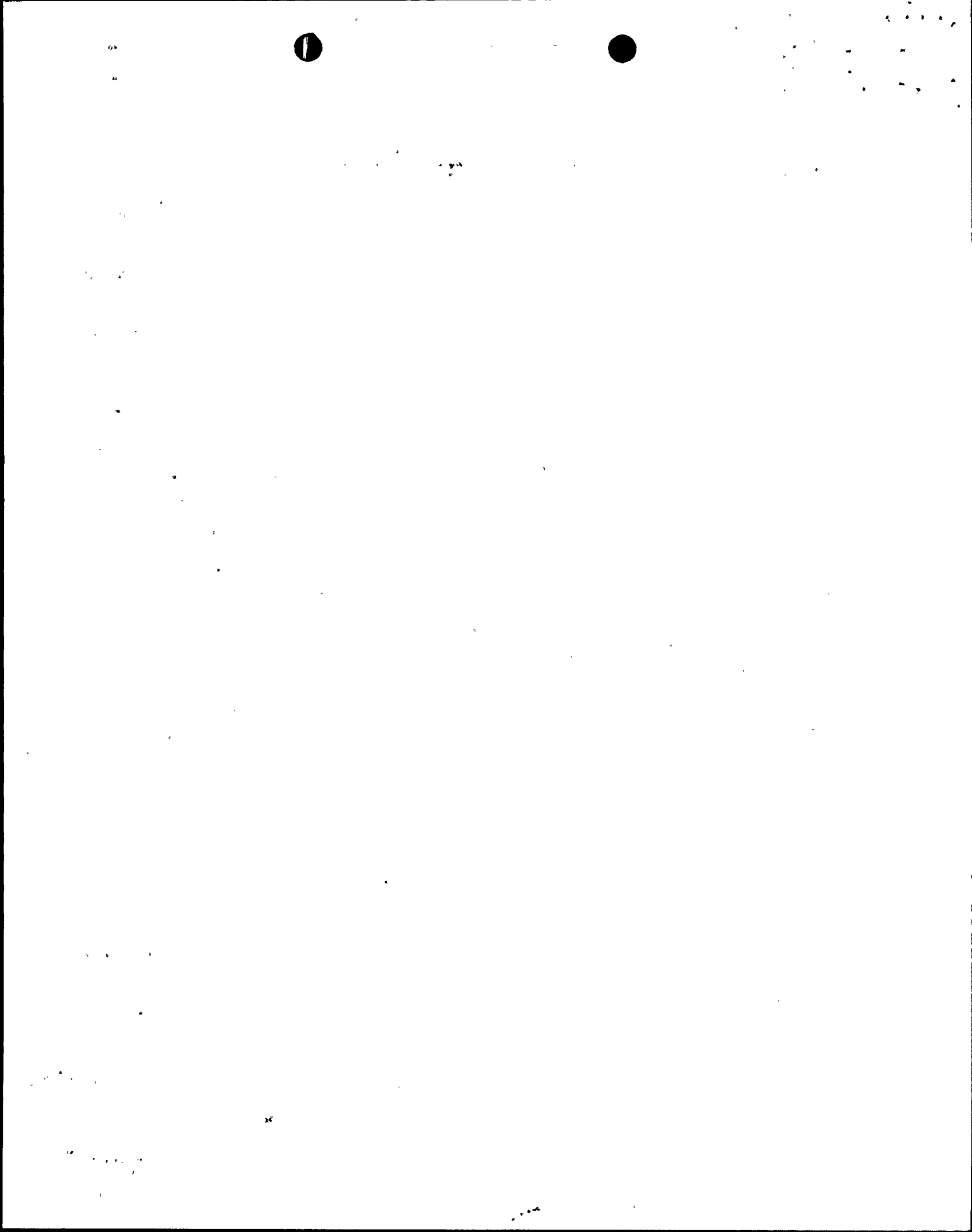
EFFECTIVE:

PARAM	Flow	BOD (5)	TSS																
AVG	Mon	30.0	90.0																
MAX	Mon	45.0	135.0																
FREQ	5/wk	2/mo	2/mo																
UNITS	MGD	mg/l	mg/l																
1	.031248																		
2	.031248																		
3	.031248																		
4																			
5																			
6	.031248	21	13																
7	.031248																		
8	.031248																		
9	.031248																		
10																			
11																			
12																			
13	.024048																		
14	.024048	27	28																
15	.024048																		
16	.024048																		
17	.024048																		
18																			
19																			
20	.024048																		
21	.024048	24	28																
22	.031248																		
23	.031248																		
24	.031248																		
25																			
26																			
27	.031248																		
28	.031248	28	34																
29	.031248																		
30	.031248																		
31																			
MO AVG	.028848	25	26																
MAX	.031248	28	34																

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

ADEM FORM 261 (B) 1/88



ADEM DISCHARGE MONITORING REPORT

MONTHLY

MONTH: November, 19 89

COMPANY: TVA - Brown's Ferry Nuclear Plant

LOCATION: U.S. Highway 72  
Athens, Alabama 35611

NPDES NO. AL0022080 MAJOR

DSN020

EFFECTIVE:

PARAM	Flow	pH	TSS	O&G														
AVG	N/A	Mon	N/A	N/A														
MAX	Mon	Mon	Mon	Mon														
FREQ	1/yr	1/yr	1/yr	1/yr														
UNITS	MGD	s.u.	mg/l	mg/l														
1																		
2																		
3																		
4																		
5																		
6	.1728	6.9	5	<5														
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14	.1728	6.7	21	<5														
15																		
16	.1728	6.7	2	<5														
17																		
18																		
19																		
20																		
21																		
22																		
23	.1728	7.5	9	<5														
24																		
25																		
26																		
27																		
28																		
29																		
30																		
31																		
MO AVG	.1728	7	9	<5														
MAX	.1728	7.5	21	<5														

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



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ATTACHMENT 2

Description of Discharge - Discharge (DSN) 001C - unit 3 control building - the total suspended solids was 123 ppm which exceeds daily maximum of 100 mg/l.

Cause of Noncompliance - One drain that feeds into DSN001C is from an outside drain at door 1C of the control bay. Heavy pedestrian traffic around this drain resulted in sediment washing into the drain during a heavy rainfall. This caused noncomplying discharge from DSN001C.

Period of Noncompliance

<u>Date</u>	<u>Time</u>	<u>Value mg/l</u>	<u>Maximum Period of Noncompliance</u>
10-31-89	1715	No Flow	0
11-08-89	1220	123	7 days, 12 hrs., 20 min.
11-08-89	1642	No Flow	0

Steps to be Taken to Reduce, Eliminate and Prevent Recurrence of Noncomplying Discharge - Lab analyst is going to survey the area during each sampling period. Housekeeping priority around the drain has been increased.

1330m/19



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