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 50-296 Browns Ferry Nuclear Power Station, Unit 3, Tennessee 05000296
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 * Tennessee Valley Authority
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SUBJECT: Discharge monitoring rept for Jan 1988.

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	NRR/DREP/RPB10A	4 4	NRR/PMAS/ILRB12	1 1
	<u>REG FILE</u> 01	1 1	RGN2 FILE 02	1 1
	RGN2/DRSS/EPRPB	1 1		
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ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
DISCHARGE MONITORING REPORT
Tennessee Valley Authority
BROWNS FERRY NUCLEAR PLANT

DSN 101 - Diffuser Discharge
Structure

MONTH January 1988

NPDES # AL0022080

PARAM	FLOW	pH	Amb. River Temperature	Downstream River Temp.	D.S. River Temp. >92.0	Downstream River Temp.	Temperature Rise
AVG	-	6.0	24hr Av Max	24hr Av Max	----	Hourly Max	24hr Av Max
MAX	-	9.0	----	90.0	6 Hrly Rdgs	93.0	10.0
UNITS	MGD	s.u.	----	°	# Rdgs >6	°	°
FREQ.	Cont.	1/wk	Continuous	Continuous	Hourly	Continuous	Continuous
1	633.6		48.7	48.9	0	49.5	0.5
2	633.6		48.3	48.8	0	48.4	0.7
3	633.6		47.3	47.5	0	46.6	0.3
4	633.6		46.6	46.5	0	46.3	0.1
5	633.6	7.7	46.0	45.8	0	45.7	0.5
6	633.6		44.1	44.6	0	45.0	1.3
7	633.6		42.7	43.8	0	43.6	1.7
8	633.6		40.3	41.6	0	42.4	1.5
9	633.6		40.2	40.5	0	41.6	0.3
10	633.6		39.7	40.6	0	40.9	1.3
11	633.6		39.3	40.1	0	40.5	0.9
12	633.6	8.1	40.0	38.1	0	40.1	-0.9
13	633.6		41.1	40.1	0	40.7	-0.3
14	633.6		41.1	40.2	0	40.2	-0.2
15	633.6		39.6	39.2	0	39.9	0.0
16	633.6		40.3	39.8	0	40.1	-0.2
17	633.6		41.4	40.2	0	41.1	-1.0
18	633.6		42.4	41.5	0	42.3	-0.6
19	633.6	7.9	43.9	43.6	0	45.4	-0.1
20	633.6		47.3	48.0	0	48.9	0.7
21	633.6		47.3	48.0	0	47.7	0.7
22	633.6		46.6	46.6	0	45.7	0.0
23	633.6		45.7	44.5	0	44.4	-1.1
24	633.6		45.6	44.3	0	44.5	-1.1
25	633.6		45.4	44.5	0	44.4	-0.5
26	633.6	7.6	44.6	44.0	0	43.3	-0.3
27	633.6		42.6	41.9	0	41.8	-0.5
28	633.6		42.2	42.2	0	42.9	0.3
29	633.6		43.3	42.6	0	43.5	-0.5
30	633.6		44.5	43.7	0	44.4	-0.2
31	633.6		45.6	44.9	0	45.5	-0.5
MAX	633.6	8.1	48.7	48.9	0	49.5	1.7
AVG	633.6		43.7	43.4	0	43.8	0.1
MIN		7.6					

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.

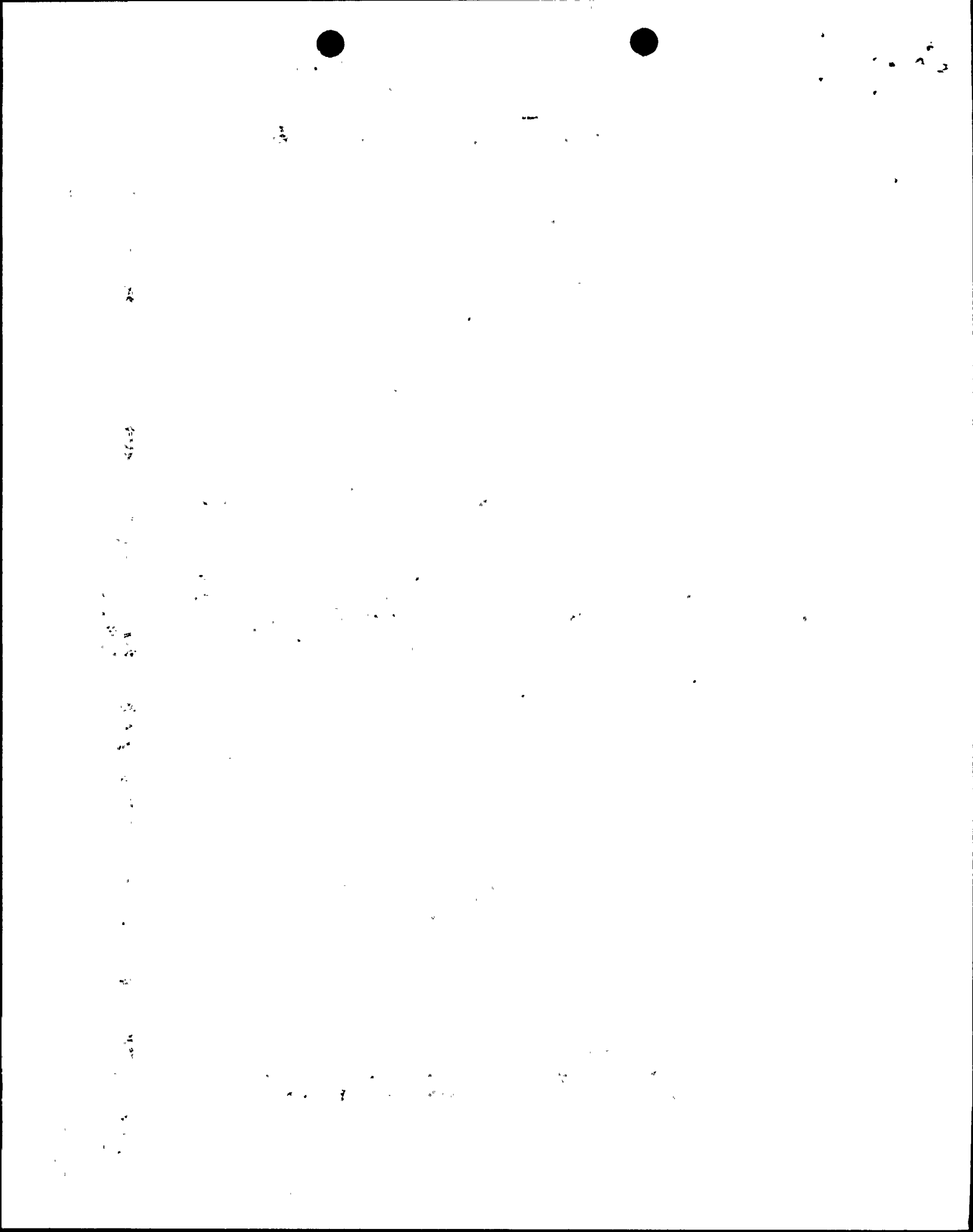
Signature of Responsible Official

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Date: 2/23/88

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

DSN 102 - Sedimentation Pond

MONTH January 1988

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	
FREQ.	1/RELEASE	1/RELEASE	1/RELEASE	2/RELEASE	
1					
2					
3					
4					
5					
6					
7					
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30					
31					
MAX					*No Discharge This Entire
AVG					Month
MIN					
TOTAL	No Discharge*				

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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 January 1988

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				
3				
4				
5				
6				
7				
8	0.900000	< 5	5	
9				
10				
11				
12				
13				
14				
15	0.600000	< 5	7	
16				
17				
18				
19				
20				
21	0.936000	< 5	17	
22				
23				
24				
25				
26				
27				
28				
29	0.527000	< 5	23	
30				
31				
MAX	0.936000	< 5	23	
AVG	0.740750	< 5	13	

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

DSN 104 - Liquid Radwaste

MONTH January 1988

NPDES # AL0022080

PARAM	FLOW	O&G	TSS	LDT/O&G	LDT/TSS	Copper	Iron
AVG		15	30	15	30		
MAX		20	100	20	100	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	No Discharge						
2	0.047950						
3	0.018265						
4	No Discharge						
5	No Discharge						
6	0.031061	< 5	< 1				
7	No Discharge						
8	0.030994	6	< 1				
9	0.031284						
10	0.021751						
11	No Discharge						
12	0.030158	< 5	< 1				
13	0.030216						
14	0.031061	< 5	< 1				
15	0.030421						
16	0.018349						
17	0.031061						
18	0.025758						
19	0.033069	< 5	< 1	< 5	23		
20	0.054142						
21	No Discharge						
22	0.053882	< 5	< 1				
23	0.019095						
24	0.060818						
25	0.022880	< 5	< 1				
26	0.031227						
27	0.021752						
28	0.031227	< 5	< 1				
29	0.022327						
30	0.019050						
31	0.031284						
MAX	0.060818	6	< 1	< 5	23		
AVG	0.031163	< 5	< 1	< 5	23		

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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 January 1988

NPDES # AL0022080

PARAM	FLOW	TEMP		
AVG	----			COMMENTS
MAX	----			
UNITS	MGD	F		
FREQ.	1/WEEK	1/WEEK		
1	No Discharge			
2	This Entire			
3	Week			
4				
5				
6				
7				
8	No Discharge			
9	This Entire			
10	Week			
11				
12				
13				
14				
15	No Discharge			
16	This Entire			
17	Week			
18				
19				
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21				
22	No Discharge			
23	This Entire			
24	Week			
25				
26				
27				
28				
29	No Discharge		*No Discharge This Entire Month	
30	This Entire			
31	Week			
MAX				
AVG	No Discharge*			

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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 January 1988

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				
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6				
7	No Discharge			
8	This Entire			
9	Week			
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14	No Discharge			
15	This Entire			
16	Week			
17				
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21	No Discharge			
22	This Entire			
23	Week			
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27				
28	No Discharge			*DISCHARGE ROUTED TO SEDIMENTATION
29	This Entire			POND FOR ENTIRE REPORTING PERIOD.
30	Week			
31				
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

MONTH January 1988

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				
3				
4				
5				
6	0.001330	< 5	2	
7				
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11				
12				
13	0.001200	< 5	3	
14				
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20	0.000912	36	12	
21				
22				
23				
24				
25	0.001900	< 5	15	O & G RESAMPLE < 5
26				
27				
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31				
MAX	0.001900	36	15	
AVG	0.001336	< 12	8	

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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 January 1988

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				
3				
4				
5				
6				
7	No Discharge			
8	This Entire			
9	Week			
10				
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14	No Discharge			
15	This Entire			
16	Week			
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21	No Discharge			
22	This Entire			
23	Week			
24				
25				
26				
27				
28	No Discharge			*No Discharge This Entire Month
29	This Entire			
30	Week			
31				
MAX				
AVG	No Discharge*			

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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 January 1988

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				
3				
4				
5				
6				
7	No Discharge			
8	This Entire			
9	Week			
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14	No Discharge			
15	This Entire			
16	Week			
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21	No Discharge			
22	This Entire			
23	Week			
24				
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26				
27				
28	No Discharge			
29	This Entire			*No Discharge This Entire Month
30	Week			
31				
MAX				
AVG	No Discharge *			

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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

MONTH January

1988

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			43	
2			25	
3			25	
4			37	
5				
6	0.000500	11	26	
7				
8			35	
9			11	
10			20	
11			22	TSS RESAMPLES 122 & 34
12			14	
13	0.000254	6	39	
14				
15				
16			44	
17			42	
18			22	
19			59	
20	0.000289	7	32	
21			104	
22			39	
23			42	
24			134	
25			347	TSS RESAMPLES 378 & 111
26			8	
27			183	
28	0.004830	13	30	
29			58	
30			22	
31			66	
MAX	0.004830	13	378	
AVG	0.001468	9	70	

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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 January 1988

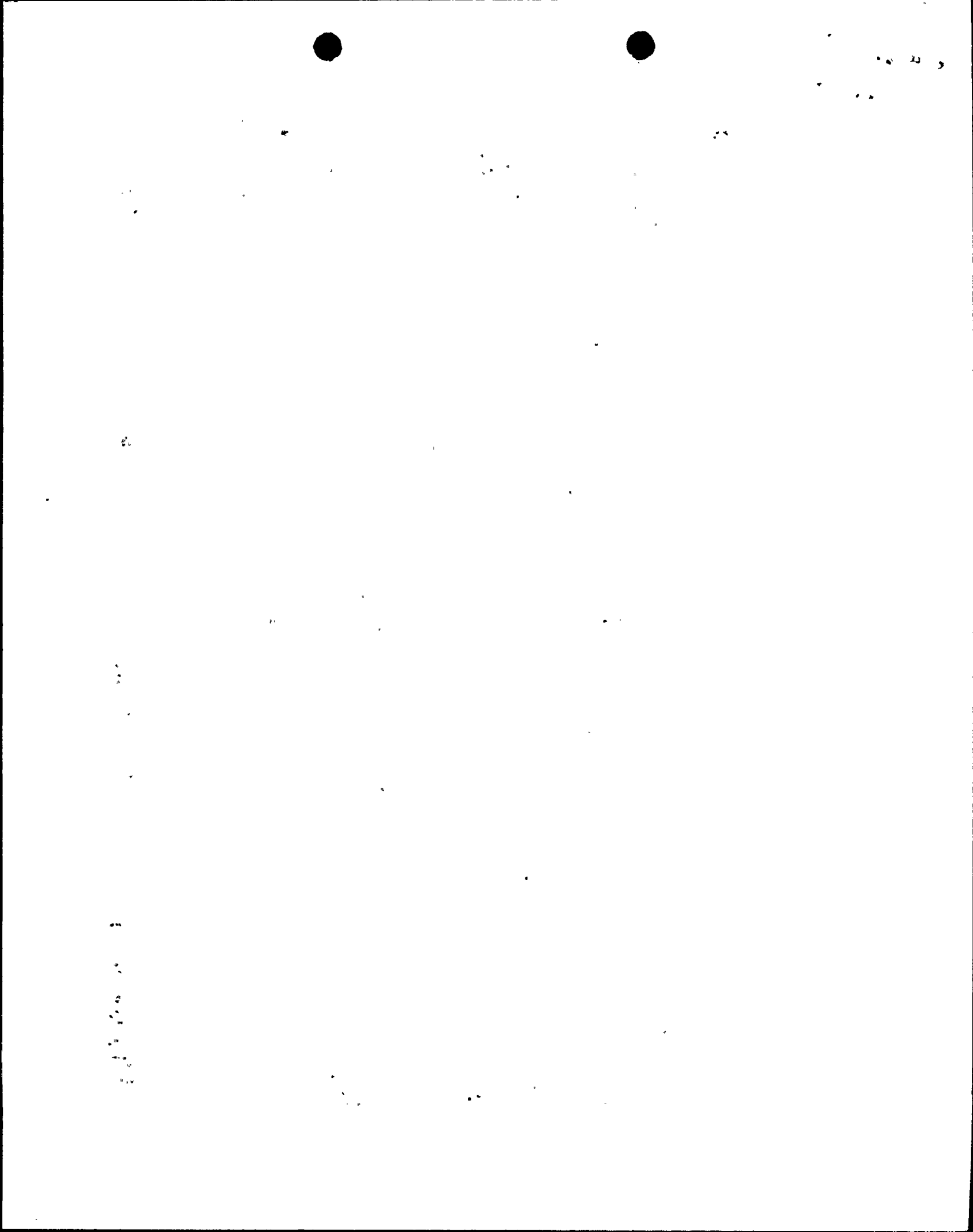
NPDES # AL0022080

PARAM	FLOW	TSS	BOD5	COMMENTS
AVG	----	90	30	
MAX	----	----	45	
UNITS	MGD	mg/l	mg/l	
FREQ.	5/WEEK	2/MONTH	2/MONTH	
1	0.031248			
2				
3				
4	0.049248	28	22	
5	0.049248			
6	0.049248			
7	0.039600			
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9				
10				
11	0.031248			
12	0.031248	29	24	
13	0.031248			
14	0.039600			
15	0.039600			
16				
17				
18	0.031248			
19	0.039600			
20	0.039600	19	21	
21	0.039600			
22	0.039600			
23				
24				
25	0.039600	6	20	
26	0.039600			
27	0.039600			
28	0.049248			
29	0.049248			
30				
31				
MAX	0.049248	29	24	
AVG	0.040368	21	22	

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 _____

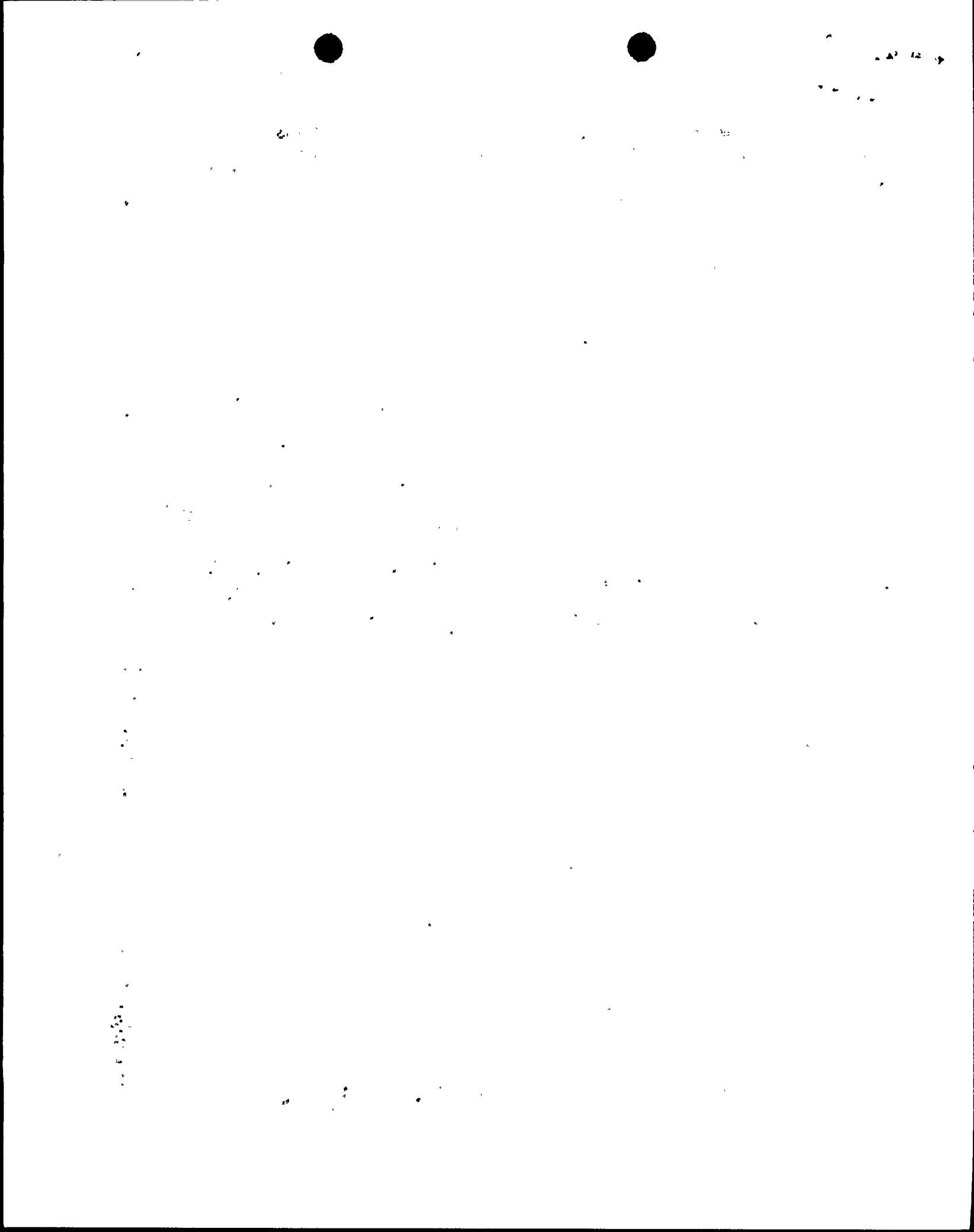
Date: _____



Description of Discharge - DSN 107 - Unit 3 Control Building Drain - The oil and grease content exceeded the daily maximum of 20 mg/l. The oil and grease content of the discharge was 36 mg/l on January 20, 1988.

Cause and Period of Noncompliance - The cause of this noncompliance was not determined because communication of the occurrence was not prompt. Two samples taken on January 25, 1988 contained < 5 mg/l oil and grease. The maximum period of noncompliance was thirteen days.

Steps Taken to Reduce, Eliminate, and Prevent Recurrence of Noncomplying Discharge - Laboratory personnel were reminded of the need to immediately notify the Environmental Engineering Section of all noncompliances to allow investigations of their cause. In addition, procedure revisions are being made to require prompt data review by the laboratory shift supervisor and to specify the permit limit on the data sheet.



Description of Discharge - DSN 110 - Unit 1 & 2 Office Building Drain - The total suspended solids (TSS) content exceeded the daily maximum of 100 mg/l and the daily average of 30 mg/l. The table below contains the dates and values of the noncompliances.

Cause and Period of Noncompliance - One possible cause was iron oxide laden water drained from the hot water generator in the control bay chiller room to the floor drain. This was discussed in the December DMR. This system was drained in December so a maintenance request could be performed on a hot water recirculation pump. Two flushes of this line were done on January 11 and January 24-25, 1988. Another possible cause was identified as a sink in the control bay used to wash cooking and eating utensils. Food, soap, and grease from this sink may be resulting in the high and fluctuating total suspended solids content. The following table lists the maximum periods of noncompliance.

DATE	VALUE	MAXIMUM PERIOD OF NONCOMPLIANCE
January 11	122	4 hours, 15 minutes (Flush)
January 21	104	2 days, 2 hours, 42 minutes
January 24-25	134, 347, 378, 111	2 days, 2 hours, 42 minutes (Flush)
January 27	183	1 day, 14 hours, 25 minutes

Steps Taken to Reduce, Eliminate, and Prevent Recurrence of Noncomplying Discharge - We are investigating ways to route the sink drain to the sanitary wastewater system. If this cannot be done, the sink will be removed from service.