

NAME **ARKANSAS POWER & LIGHT CO**
 ADDRESS **GENERAL MANAGER**
ARK NUCLEAR P O BOX 608
RUSSELLVILLE AR 72801
 FACILITY **R**
 LOCATION

(2-16) **AR0001392**
 PERMIT NUMBER

(17-19) **001**
 DISCHARGE NUMBER

MONITORING PERIOD

79	07	01	TH	79	07	31
YEAR	MO	DAY	W	YEAR	MO	DAY
(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-51)			(4 Card Only) QUALITY OR CONCENTRATION (54-61)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
Once Through cooling Water (001) Flow Rate	SAMPLE MEASUREMENT	1101	1128	MGD					0	Cont.	RECORD
	PERMIT REQUIREMENT	1140	1145							Cont.	RECORD
Temperature	SAMPLE MEASUREMENT	90.55	99.79	°F					0	Cont.	RECORD
	PERMIT REQUIREMENT	105	110							Cont.	RECORD
Free Available Chlorine	SAMPLE MEASUREMENT				RECORD	0.05	0.1	mg/l	0	2/7	Grab
	PERMIT REQUIREMENT				RECORD	0.2	0.2			1/4	Grab
7911160505	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
1347 023	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER J.P. O'Hanlon General Manager TYPED OR PRINTED	THIS DOCUMENT IS SIGNED WITH RECOGNITION THAT KNOWINGLY MAKING A FALSE CERTIFICATION ON THIS REPORT OR SUPPORTING DOCUMENTS OR INTENTIONALLY TAMPERING WITH ANY MONITORING DEVICE OR METHOD ARE CRIMINAL OFFENSES. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. Penalties under these statutes may be fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT <i>J.P. O'Hanlon</i>	TELEPHONE 501 968-2519 AREA CODE NUMBER	DATE 79 10 15 YEAR MO DAY
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COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

POOR ORIGINAL

NAME **ARKANSAS POWER & LIGHT CO**
 ADDRESS **GENERAL MANAGER**
ARK NUCLEAR P O BOX 408
RUSSELLVILLE AR 72801 R
 CITY
 LOCATION

(2-16) **AR0001392**
 PERMIT NUMBER

(17-19) **01A**
 DISCHARGE NUMBER

MONITORING PERIOD

FROM	79	07	01	TH	79	07	31
	YEAR	MO	DAY	RUP	YEAR	MO	DAY
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (54-61)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
Low Volume Waste Water (01A) Flow Rate	SAMPLE MEASUREMENT	0.042	0.11	MGD					0	Each Release	Record
	PERMIT REQUIREMENT	Not Specified	Not Specified							Daily Average	Reti- nate
Total Suspended Solids	SAMPLE MEASUREMENT				N/A	17.8	33	mg/l	0	1/7	Grab
	PERMIT REQUIREMENT				N/A	30	100				Grab
Oil and Grease	SAMPLE MEASUREMENT				N/A	6.2	25.3	mg/l	1	1/7	Grab
	PERMIT REQUIREMENT				N/A	15					
pH	SAMPLE MEASUREMENT				6.0	N/A	8.8	pH	0	1/7	Grab
	PERMIT REQUIREMENT				6.0	N/A	8.0				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER J. P. O'Hanlon General Manager TYPED OR PRINTED	THIS DOCUMENT IS SIGNED WITH RECOGNITION THAT KNOW- INGLY MAKING A FALSE CERTIFICATION ON THIS REPORT OR SUPPORTING DOCUMENTS OR INTENTIONALLY TAMPERING WITH ANY MONITORING DEVICE OR METHOD ARE CRIMINAL OFFENSES. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penal- ties under these statutes may be fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT <i>J. P. O'Hanlon</i>	TELEPHONE		DATE		
			501 AREA CODE	968-2519 NUMBER	79 YEAR	10 MO	15 DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Ref. CL-767

POOR ORIGINAL

ARKANSAS POWER & LIGHT COMPANY
POST OFFICE BOX 551 LITTLE ROCK, ARKANSAS 72203 (501) 371-4422

WILLIAM CAVANAUGH III
Vice President
Generation & Construction

August 10, 1979

CL-767

Mrs. Adlene Harrison
Regional Administrator
U.S. Environmental Protection
Agency, Region VI
First International Building
1201 Elm Street
Dallas, Texas 75270

REFERENCE: Arkansas Nuclear One SES
NPDES Permit No. AR0001392

Dear Mrs. Harrison:

This letter represents a noncompliance report as required by Part II, paragraph A.2 of the above referenced permit.

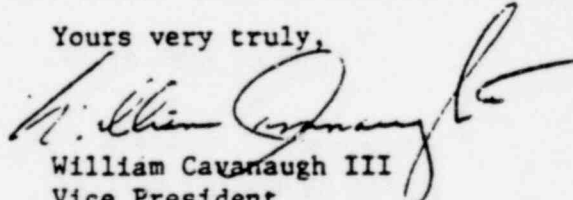
On Monday, July 30, 1979, routine sampling of sample point 01A, specifically the Laundry Waste Effluent, resulted in a violation of the oil and grease limitation. Analysis on this date gave a result of 21.6 mg/l. Further analyses gave results of 28.4 and 25.9 mg/l. Permit limits are 15 mg/l daily average and 20 mg/l daily maximum.

25.3 mg/l avg.

Under separate cover we are forwarding the results of a series of tests that we committed to in response to Administrative Order Docket No. VI-79-116. We feel that these results support the change we would like to make to bring this sample stream into consistent compliance with the NPDES guidelines.

Further, we have arranged to meet with members of your Compliance and Quality Control staff to review our findings and answer whatever questions they may have.

Yours very truly,


William Cavanaugh III
Vice President
Generation and Construction

WC:DLS:srt

cc: Mr. John Griffin
Mr. D. A. Rueter

Mr. R. C. Mitchell
Mr. D. R. Sikes

1347 025

cc: Mr. Charles Steel
Mr. J. P. O'Hanlon
Mr. David Snellings
Dr. D. L. Swindle

Mr. Ray Cox
Mr. Tom Baker
Mr. Jarrell Southall (DPC&E)

NAME ARKANSAS POWER & LIGHT CO
 ADDRESS GENERAL MANAGER
ARK NUCLEAR P O BOX 608
RUSSELLVILLE AR 72801 R
 FACILITY
 LOCATION

(2-16)		(17-19)	
AR0001392		01A	
PERMIT NUMBER		DISCHARGE NUMBER	

MONITORING PERIOD							
FROM	79	07	01	TH	79	07	31
	YEAR	MO	DAY	RD	YEAR	MO	DAY
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

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PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (58-65)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
Turbine Bldg. Sump Drain Water (01A) Flow Rate	SAMPLE MEASUREMENT	0.075	0.100	MGD				0	Daily Average	Esti- mate
	PERMIT REQUIREMENT	Not Specified	Not Specified						Daily Average	Esti- mate
Total Suspended Solids	SAMPLE MEASUREMENT				N/A	7.3	10.5	0	1/7	Grab
	PERMIT REQUIREMENT				N/A	30	100		1/1	Grab
Oil & Grease	SAMPLE MEASUREMENT				N/A	8.2	15.7	0	1/7	Grab
	PERMIT REQUIREMENT				N/A	15	20		1/7	Grab
pH	SAMPLE MEASUREMENT				7.0	N/A	10.7	1	1/7	Grab
	PERMIT REQUIREMENT				6.0	N/A	9.0		1/7	Grab
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER J. P. O'Hanlon General Manager TYPED OR PRINTED	THIS DOCUMENT IS SIGNED WITH RECOGNITION THAT KNOWINGLY MAKING A FALSE CERTIFICATION ON THIS REPORT OR SUPPORTING DOCUMENTS OR INTENTIONALLY TAMPERING WITH ANY MONITORING DEVICE OR METHOD ARE CRIMINAL OFFENSES. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may be fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT <i>J P O'Hanlon</i>	TELEPHONE		DATE		
			501 AREA CODE	968-2519 NUMBER	79 YEAR	10 MO	15 DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Ref. CL-757

POOR ORIGINAL

ARKANSAS POWER & LIGHT COMPANY
POST OFFICE BOX 551 LITTLE ROCK, ARKANSAS 72203- (501) 371-4422

WILLIAM CAVANAUGH III
Vice President
Generation & Construction

August 3, 1979

CL-757

Mrs. Adlene Harrison,
Regional Administrator
U.S. Environmental Protection
Agency, Region VI
First International Building
1201 Elm Street
Dallas, Texas 75270

REFERENCE: Arkansas Nuclear One SES
NPDES Permit NO. AR0001392

Dear Mrs. Harrison:

This letter represents a noncompliance report as required by Part II, paragraph A.2 of the above referenced permit.

On Monday July 30, routine sampling and analysis of sample point 01A, specifically the turbine building sump drain, resulted in a violation of the pH limitation. The pH reading was 10.7 while pH limits are 6.0 - 9.0 S.U. Investigation of this violation has traced the high pH water to the unit 2 makeup demineralizer (MUDT).

In the regeneration cycle for this unit, chemical addition of strong acid and caustic is followed by slow rinses to elute these strong chemicals to a holding tank for neutralization. Following the slow rinses, fast rinses are applied to elute the last traces of the strong chemicals to the holding tank. After several minutes into the fast rinse cycles, flow is diverted from the neutralizing tank to the building sump system. If flow diversion occurs too soon, high or low pH water can be routed to the sump system. The duration of the flow being directed to the holding tank is automatically controlled by timers. The timer duration must be manually determined thru trial and error by pH monitoring in the building sump.

We have experienced a pH excursion of this type at least once before and felt that we had corrected the problem at that time.

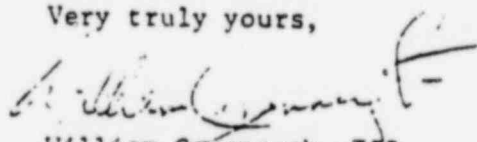
1347 028

August 3, 1979

We are now in the process of repeating the procedure of monitoring the cycles for pH to ascertain needed timer duration for flow directed to the neutralizing tank. When this is accomplished and barring any future equipment malfunctions, violations from this source should not occur.

Further, when the planned modifications to the oil-water separator are finished (see letter dated July 27, 1979 Cavanaugh to EPA) the capability will exist to hold up for neutralization any and all sump waters outside the pH limits.

Very truly yours,


William Cavanaugh, III
Vice-President
Generation & Construction

MC:DLS:lw

cc: Mr. R. C. Mitchell
Mr. Charles Steel
Mr. Pat Moran
Mr. R. F. Cox
Mr. D. A. Rueter
Mr. D. R. Sikes
Mr. J. P. O'Hanlon
Mr. John Griffin
Mr. Dave Snellings ✓
Dr. D. L. Swindle
Mr. Jarrell Southall (ADPC&E)
Mr. Jerry Jackson

1347 029

NAME **ARKANSAS POWER & LIGHT CO**
 POSITION **GENERAL MANAGER**
 ADDRESS **ARK NUCLEAR P O BOX 608**
RUSSELLVILLE AR 72801
 FACILITY
 LOCATION

DISCHARGE MONITORING REPORT (DMR)

(2-16) **AR0001392** PERMIT NUMBER
 (17-19) **01B** DISCHARGE NUMBER
 MONITORING PERIOD
 FROM **79 07 01 TH** **79 07 31**
 YEAR MO DAY YEAR MO DAY
 (20-21) (22-23) (24-25) (26-27) (28-29) (30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (54-61)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
Cooling Tower Blowdown Water (01B) Flow Rate	SAMPLE MEASUREMENT	1.51	5.76	MGD					0	Daily Average	Esti- mate
	PERMIT REQUIREMENT	Not Specified	Not Specified							Daily Average	Esti- mate
pH	SAMPLE MEASUREMENT				6.9	N/A	7.8		0	31/31	Grab
	PERMIT REQUIREMENT				6.0	N/A	9.0				Grab
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
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	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
J. P. O'Hanlon
General Manager
 TYPED OR PRINTED

THIS DOCUMENT IS SIGNED WITH RECOGNITION THAT KNOW-
 INGLY MAKING A FALSE CERTIFICATION ON THIS REPORT OR
 SUPPORTING DOCUMENTS OR INTENTIONALLY TAMPERING
 WITH ANY MONITORING DEVICE OR METHOD ARE CRIMINAL
 OFFENSES. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penal-
 ties under these statutes may be fines up to \$10,000 and/or maximum
 imprisonment of between 6 months and 5 years.)

SIGNATURE OF PRINCIPAL EXECUTIVE
J. P. O'Hanlon
 OFFICER OR AUTHORIZED AGENT

TELEPHONE
501 968-2519
 AREA CODE NUMBER

DATE
79 10 15
 YEAR MO DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

POOR ORIGINAL

PERMITTEE NAME: KANSAS POWER & LIGHT CO
 ADDRESS: GENERAL MANAGER
 ARK NUCLEAR P O BOX 600
 RUSSELLVILLE AR 72801
 FACILITY: R
 LOCATION:

(2-16) AR0001392 PERMIT NUMBER
 (17-19) 002 DISCHARGE NUMBER
 MONITORING PERIOD
 FROM 79 07 01 TH 79 07 31
 (20-21) (22-23) (24-25) (26-27) (28-29) (30-31)
 YEAR MO DAY YEAR MO DAY

NOTE: Read instructions before completing this form.

PARAMETER (32-33)		(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (54-61)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
Treated Sanitary Sewage (002) Flow Rate	SAMPLE MEASUREMENT	0.0037	0.0068	MCD					0	Daily Average	Estimate
	PERMIT REQUIREMENT	Not Specified	Not Specified							Daily Average	Estimate
Biochemical Oxygen Demand	SAMPLE MEASUREMENT				N/A	8.7	11.9	mg/l	0	1/7	Grab
	PERMIT REQUIREMENT				N/A	30	45			1/7	Grab
Total Suspended Solids	SAMPLE MEASUREMENT				N/A	5.6	9.5	mg/l	0	1/7	Grab
	PERMIT REQUIREMENT				N/A	30	45			1/7	Grab
Fecal Coliform	SAMPLE MEASUREMENT				N/A	0	0	Number 100 ml	0	1/7	Grab
	PERMIT REQUIREMENT				N/A	200	400			1/7	Grab
pH	SAMPLE MEASUREMENT				6.6	N/A	7.4	pH	0	1/7	Grab
	PERMIT REQUIREMENT				6.0	N/A	9.0			1/7	Grab
1347 031	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER: J. P. O'Hanlon, General Manager
 TYPED OR PRINTED: [Signature]
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 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT: J. P. O'Hanlon
 TELEPHONE: 501 968-2519
 DATE: 79 10 15
 AREA CODE: 501 NUMBER: 968-2519 YEAR: 79 MO: 10 DAY: 15

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

POOR ORIGINAL

(2-16)	(17-19)
AR0001392	001
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD					
79	08	01	TH	79	08
YEAR	MO	DAY	RUP	YEAR	MO
(20-21)	(22-23)	(24-25)		(26-27)	(28-29)

NOTE: Read instructions before completing this form.

[illegible]

DATE		
79	10	15
YEAR	MO	DAY

POOR ORIGINAL

NAME	ARKANSAS POWER & LIGHT CO
ADDRESS	GENERAL MANAGER
	ARK NUCLEAR P O BOX 608
	RUSSELLVILLE AR 72803
FACILITY	R
LOCATION	

AR0001392	01A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD					
79	08	01	TH	79	08
YEAR	MO	DAY	W ^D	YEAR	MO
70 911	23 232	34 342		70 911	23 232

NOTE: Read instructions before completing this form.

NOTE: Read instructions before completing this form.											
PARAMETER (32-37)	X	(J Card Only) QUANTITY OR LOADING (46-53)			(I Card Only) QUALITY OR CONCENTRATION (46-53)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)	
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM				UNITS
Low Volume Waste Water (01A) Flow Rate	SAMPLE MEASUREMENT	0.057	0.176	MGD					Each	Record	
	PERMIT REQUIREMENT	Not Specified	Not Specified					0	Daily Esti-Average	Grab	
	SAMPLE MEASUREMENT										
Total Suspended Solids	PERMIT REQUIREMENT							0	1/7	Grab	
	SAMPLE MEASUREMENT								1/7	Grab	
	SAMPLE MEASUREMENT										
Oil and Grease	PERMIT REQUIREMENT							2	1/7	Grab	
	SAMPLE MEASUREMENT								1/7	Grab	
	SAMPLE MEASUREMENT										
pH	PERMIT REQUIREMENT							0	1/7	Grab	
	SAMPLE MEASUREMENT								1/7	Grab	
	SAMPLE MEASUREMENT										
1347	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	SAMPLE MEASUREMENT										
033	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	SAMPLE MEASUREMENT										
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		THIS DOCUMENT IS SIGNED WITH RECOGNITION THAT KNOWINGLY MAKING A FALSE CERTIFICATION ON THIS REPORT OR SUPPORTING DOCUMENTS OF INTENTIONALLY TAMPERING WITH ANY MONITORING DEVICE OR METHOD ARE CRIMINAL OFFENSES. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. Penalties under these statutes may be fines up to \$10,000 and/or imprisonment of between 6 months and 5 years.			SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE	
J. P. O'Hanlon General Manager					501			958-2519		79 10 15	
TYPED OR PRINTED					AREA CODE			NUMBER		YEAR MO DAY	
COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)											

Ref. letter of Aug. 21 William Cavanaugh to Mrs. Adlene Harrison

POOR ORIGINAL

ARKANSAS POWER & LIGHT COMPANY
POST OFFICE BOX 551 LITTLE ROCK, ARKANSAS 72203 (501) 371-4422

August 21, 1979

WILLIAM CAVANAUGH III
Vice President
Generation & Construction

Mrs. Adlene Harrison,
Regional Administrator
U. S. Environmental Protection
Agency, Region VI
First International Building
1701 Elm Street
Dallas, Texas 75270

COPY

REFERENCE: Arkansas Nuclear One SES
NPDES Permit NO. AR0001392

Dear Mr. Harrison:

This letter represents a noncompliance report as required by Part II, paragraph A. of the above referenced permit.

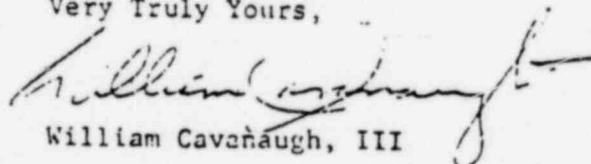
On Thursday August 16, and August 23, 1979, analysis of sample point 01A, specifically the laundry tank effluent, resulted in violations of the oil and grease limitation. Results from triplicate samples averaged 28.7 mg/l and 20.3 mg/l respectively. Permit limits are 15 mg/l daily average and 20 mg/l daily maximum.

Investigation has revealed that the laundry has seen very heavy operation in the past two weeks.

The particular project that resulted in the high demand on the laundry has ended and a return to normal has occurred.

In the meantime, we are pursuing alternate compliance monitoring procedures, with the EPA Region VI staff and hope to reach mutual agreement in the near future.

Very Truly Yours,


William Cavanaugh, III

cc: Messrs. P. C. Mitchell
C. L. Steel
D. P. Moran
R. F. Cox
D. A. Rueter
D. R. Sikes
Dr. D. L. Swindle
J. P. O'Hanlon ✓
J. M. Griffin

J. D. Jackson
Jarrell Southall
Arkansas Department of Pollution Control & Ecology

POOR ORIGINAL

1347 034

NAME ARKANSAS POWER & LIGHT CO
 ADDRESS GENERAL MANAGER
ARK NUCLEAR P O BOX 608
RUSSELLVILLE AR 72801 R
 FACILITY
 LOCATION

(2-16) **AR0001392**
 PERMIT NUMBER

(17-19) **01A**
 DISCHARGE NUMBER

MONITORING PERIOD
 FROM 79 08 01 Th 79 08 31
 YEAR MO DAY YEAR MO DAY
 (20-21) (22-23) (24-25) (26-27) (28-29) (30-31)

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		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
Turbine Bldg. Sump Drain Water (01A) Flow Rate	SAMPLE MEASUREMENT	0.070	0.098	MGD					0	Daily	Esti- mate
	PERMIT REQUIREMENT	Not Specified	Not Specified							Daily	Esti- mate
Total Suspended Solids	SAMPLE MEASUREMENT				N/A	19.5	31	mg/l	0	1/7	Grab
	PERMIT REQUIREMENT				N/A	30	100			1/7	Grab
Oil and Grease	SAMPLE MEASUREMENT				N/A	3.5	4.6	mg/l	0	1/7	Grab
	PERMIT REQUIREMENT				N/A	15	20			1/7	Grab
pH	SAMPLE MEASUREMENT				6.0	N/A	8.5	pH	0	1/7	Grab
	PERMIT REQUIREMENT				6.0	N/A	9.0			1/7	Grab
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
347 035	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
J. P. O'Hanlon
 General Manager
 TYPED OR PRINTED

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 ties under these statutes may be fines up to \$10,000 and/or maximum
 imprisonment of between 6 months and 5 years.)

J. P. O'Hanlon
 SIGNATURE OF PRINCIPAL EXECUTIVE
 OFFICER OR AUTHORIZED AGENT

TELEPHONE
 501 968-2519
 AREA CODE NUMBER

DATE
 79 10 15
 YEAR MO DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

POOR ORIGINAL

NAME ARKANSAS POWER & LIGHT CO
ADDRESS GENERAL MANAGER
ARK NUCLEAR P O BOX 608
RUSSELLVILLE AR 72801 R

(2-16)
AR0001392
PERMIT NUMBER

(17-19)
018
DISCHARGE NUMBER

ACTIVITY _____
LOCATION _____

MONITORING PERIOD
FROM 79 08 01 TH 79 08 31
YEAR MO DAY YEAR MO DAY
(20-21) (22-23) (24-25) (26-27) (28-29) (30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	X	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (54-61)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
Cooling Tower Blowdown Water (01B) Flow Rate	SAMPLE MEASUREMENT	2.16	4.32	MGD				0	Daily	Esti- Average mate
	PERMIT REQUIREMENT	Not Specified	Not Specified							
pH	SAMPLE MEASUREMENT				6.6	N/A	8.5	0	30/31	Grab
	PERMIT REQUIREMENT				6.0	N/A	9.0			
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
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	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
J. P. O'Hanlon
General Manager
TYPED OR PRINTED

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OFFENSES. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penal-
ties under these statutes may be fines up to \$10,000 and/or maximum
imprisonment of between 6 months and 5 years.)

J. P. O'Hanlon
SIGNATURE OF PRINCIPAL EXECUTIVE
OFFICER OR AUTHORIZED AGENT

TELEPHONE
501 968-2519
AREA CODE NUMBER
DATE
79 10 15
YEAR MO DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

POOR ORIGINAL

NAME ARKANSAS POWER & LIGHT CO
 ADDRESS GENERAL MANAGER
ARK NUCLEAR P O BOX 608
RUSSELLVILLE AR 72801 R
 FACILITY
 LOCATION

(2-16) AR0001392
 PERMIT NUMBER

(17-19) 002
 DISCHARGE NUMBER

MONITORING PERIOD
 FROM 79 08 01 TH 79 08 31
 YEAR MO DAY YEAR MO DAY
 (20-21) (22-23) (24-25) (26-27) (28-29) (30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(1 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (54-61)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
Treated Sanitary Sew- age (002) Flow Rate	SAMPLE MEASUREMENT	0.0037	0.1005	MGD					0	Daily	Esti- mate
	PERMIT REQUIREMENT	Not Specified	Not Specified							Daily	Esti- mate
Biochemical Oxygen Demand	SAMPLE MEASUREMENT				N/A	10.2	24.5	mg/l	0	1/7	Grab
	PERMIT REQUIREMENT				N/A	30	45			1/7	Grab
Total Suspended Solids	SAMPLE MEASUREMENT				N/A	8.6	14	mg/l	0	1/7	Grab
	PERMIT REQUIREMENT				N/A	30	45			1/7	Grab
Fecal Coliform	SAMPLE MEASUREMENT				N/A	5.23	150	Number 100 ml	0	1/7	Grab
	PERMIT REQUIREMENT				N/A	200	400			1/7	Grab
pH	SAMPLE MEASUREMENT				7.2	N/A	7.5	pH	0	1/7	Grab
	PERMIT REQUIREMENT				6.0	N/A	9.0			1/7	Grab
1347 037	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
J.P. O'Hanlon
General Manager
 TYPED OR PRINTED

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 imprisonment of between 6 months and 5 years.)

J.P. O'Hanlon
 SIGNATURE OF PRINCIPAL EXECUTIVE
 OFFICER OR AUTHORIZED AGENT

TELEPHONE
 501 968-2519
 AREA CODE NUMBER

DATE
 79 10 15
 YEAR MO DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

POOR ORIGINAL

NAME ARKANSAS POWER & LIGHT CO
 ADDRESS GENERAL MANAGER
ARK NUCLEAR P O BOX 608
RUSSELLVILLE AR 72801 R
 FACILITY
 LOCATION

(1-10) (17-19)
 AR0001392 001
 PERMIT NUMBER DISCHARGE NUMBER
 MONITORING PERIOD
 FROM 79 09 01 TH 79 09 30
 YEAR MO DAY YEAR MO DAY
 (20-21) (22-23) (24-25) (26-27) (28-29) (30-31)
 RUP

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (54-61)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
Once Through Cooling Water (001) Flow Rate	SAMPLE MEASUREMENT	1121	1129	MGD				0	Cont.	RECORD
	PERMIT REQUIREMENT	1140	1145						Cont.	RECORD
Temperature	SAMPLE MEASUREMENT	92.37	99.24	°F				0	Cont.	RECORD
	PERMIT REQUIREMENT	105	110						Cont.	RECORD
Free Available Chlorine	SAMPLE MEASUREMENT				RECORD	0.06	0.15	0	2/7	Grab
	PERMIT REQUIREMENT				RECORD	0.2	0.5		2/7	Grab
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
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	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									

1347 038

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
 J. P. O'Hanlon
 General Manager
 TYPED OR PRINTED

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 ties under these statutes may be fines up to \$10,000 and/or maximum
 imprisonment of between 5 months and 5 years.)

J. P. O'Hanlon
 SIGNATURE OF PRINCIPAL EXECUTIVE
 OFFICER OR AUTHORIZED AGENT

TELEPHONE
 501 968-2519
 AREA CODE NUMBER
 DATE
 79 10 15
 YEAR MO DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here.)

POOR ORIGINAL

NOTE: Read instructions before completing this form.

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference oil attachments here)

Ref. CL-819
DOOR ORIGINAL

ARKANSAS POWER & LIGHT COMPANY
POST OFFICE BOX 551 LITTLE ROCK, ARKANSAS 72203 '501) 371-4422

WILLIAM CAVANAUGH III
Vice President
Generation & Construction

October 3, 1979

CL-819

Mrs. Adriene Harrison,
Regional Administrator
U.S. Environmental Protection
Agency, Region VI
First International Building
1201 Elm Street
Dallas, Texas 75270

RECEIVED

OCT - 5 1979

ARKANSAS POWER & LIGHT CO.
ARKANSAS NUCLEAR ONE

REFERENCE: Arkansas Nuclear One SES
NPDES Permit No. AR0001392

Dear Mrs. Harrison:

This letter represents a noncompliance report as required by Part II, paragraph A.2 of the above referenced permit.

On Thursday, September 20, 1979 routine sampling of sample point 01A, specifically the Laundry Drain Effluent, resulted in a determination of 27.6 mg/l oil and grease. Permit limits are 15 mg/l average and 20 mg/l maximum.

On September 3, 1979, oil-absorbing pillows were placed within the ANO laundry drain tanks. These pillows are designed to float on the surface of the waste water and absorb floating oil. In view of the most recent sample, these pillows are no longer polishing sufficient oil from the waste water. They are scheduled for removal and examination to determine whether they have become saturated with oils, or whether they have been merely non-functional.

A surface oil skimmer manufactured by Oil Skimmers, Inc. is being evaluated for use in the laundry waste tanks. The manufacturer claims that several of these units are in successful operation at commercial laundries nationwide. This evaluation will be completed by October 31, 1979.

POOR ORIGINAL

1347 040

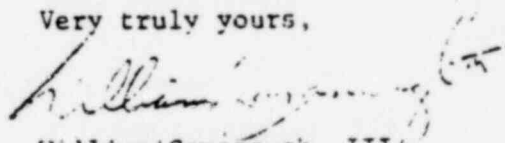
Mrs. Adlene Harrison
CL-8:9

-2-

October 3, 1979

The determination of the extent of additional treatment of the laundry wastewater will then be based on this evaluation and your ruling on the modified compliance procedures proposed by Arkansas Power and Light Company to your staff on August 16, 1979.

Very truly yours,



William Cavanaugh, III
Vice President
Generation & Construction

W. C. S. 1:

cc: Mr. R. C. Mitchell
Mr. Pat Moran
Mr. Charles Steel
Mr. D. A. Rueter
Mr. R. F. Cox
Mr. D. R. Sikes
Mr. M. L. Pendergrass
Mr. J. P. O'Hanlon ✓
Mr. John Griffin
Mr. Dave Snellings
Dr. D. L. Swindle
Mr. Jarrell Southall (ADPC&E)

1347 041

POOR ORIGINAL

PERMITTEE NAME/ADDRESS (Include city, State, Location if different)
 ARKANSAS POWER & LIGHT CO
 GENERAL MANAGER
 ARK NUCLEAR P O BOX 608
 RUSSELLVILLE AR 72801
 CITY
 LOCATION

(2-16) (17-19)
 AR0001392 01A
 PERMIT NUMBER DISCHARGE NUMBER
 MONITORING PERIOD
 FROM 79 09 01 TH 79 09 30
 YEAR MO DAY YEAR MO DAY
 (20-21) (22-23) (24-25) (26-27) (28-29) (30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-51)			(4 Card Only) QUALITY OR CONCENTRATION (46-51)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
Turbine Bldg. Sump Drain Water (01A) Flow Rate	SAMPLE MEASUREMENT	0.088	0.122	MGD					Daily	Esti- mate
	PERMIT REQUIREMENT	Not Specified	Not Specified						Daily	Esti- mate
Total Suspended Solids	SAMPLE MEASUREMENT				N/A	8	12	0	1/7	Grab
	PERMIT REQUIREMENT				N/A	30	100		1/7	Grab
Oil and Grease	SAMPLE MEASUREMENT				N/A	4.95	8.1	0	1/7	Grab
	PERMIT REQUIREMENT				N/A	15	20		1/7	Grab
pH	SAMPLE MEASUREMENT				7.4	N/A	10.5	1	1/7	Grab
	PERMIT REQUIREMENT				6.0	N/A	9.0		1/7	Grab
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
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	SAMPLE MEASUREMENT									
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	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
 J. P. O'Hanlon
 General Manager
 TYPED OR PRINTED

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SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT
 J. P. O'Hanlon

TELEPHONE
 501 968-2519

DATE
 79 10 15
 YEAR MO DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Ref. CL-799

POOR ORIGINAL

ARKANSAS POWER & LIGHT COMPANY
POST OFFICE BOX 551 LITTLE ROCK, ARKANSAS 72203 (501) 371-4422
September 18, 1979

WILLIAM CAVANAUGH III
Vice President
Generation & Construction

CL-799

Mrs. Adlene Harrison
Regional Administrator
U. S. Environmental Protection Agency
Region VI
First International Building
1201 Elm Street
Dallas, Texas 75270

REFERENCE: Arkansas Nuclear One SES
NPDES Permit No. AR0001392

Dear Mrs. Harrison:

This letter represents a noncompliance report as required by Part II, Paragraph A.2 of the above-referenced permit.

On Tuesday, September 4, 1979, routine sampling of sample point 01A, specifically the Turbine Building Sump, resulted in a determination of 10.5 pH units. Permit limits are 6-9 pH units.

Investigation reveals that the cause of this violation is rinse water from the regeneration of our Unit 2 makeup demineralizer (MUDI). Such a violation could occur because the design of this demineralizer restricts the regenerant effluents going to the neutralization tank to the strong acid and caustic chemical additions, the slow rinses associated with these, and the first several minutes of the acid and/or caustic fast rinse.

All other regenerative effluents, including the latter portions of the acid and caustic fast rinse are discharged to the Turbine Building Sump via the equipment floor drains.

The regeneration process is controlled by a series of timers which are sequentially triggered. The plant chemistry group has completed a study designed to provide conceptual guidance for a means to modify this system.

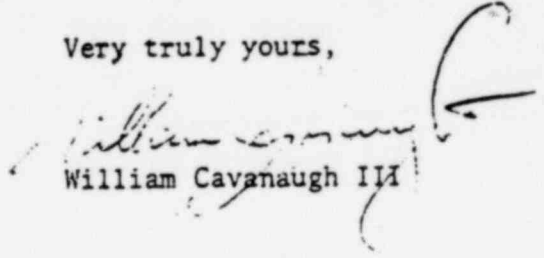
1347 043

Mrs. Adlene Harrison

An engineering design change request has been initiated to accomplish this modification. The design change will involve altering the presently used logic in the system. This will necessitate rerouting some wiring and possibly the installation of additional timers. This work is expected to be completed in November, 1979.

This should eliminate the occurrence of violations attributable to this source.

Very truly yours,


William Cavanaugh III

WC:DLS:kc

cc Mr. R. C. Mitchell
Mr. Pat Moran
Mr. Charles Steel
Mr. D. A. Rueter
Mr. R. F. Cox
Mr. D. R. Sikes
Mr. M. L. Pendergrass
Mr. J. P. O'Hanlon
Mr. John Griffin
Mr. Dave Snellings
Dr. D. L. Swindle
Mr. Jarrell Southall (ADPC&E)

1347 044

NAME ARKANSAS POWER & LIGHT CO
 POSITION GENERAL MANAGER
ARK NUCLEAR P O BOX 608
RUSSELLVILLE AR 72801 R
 FACILITY
 LOCATION

(2-16)
 AR0001392
 PERMIT NUMBER

(17-19)
 018
 DISCHARGE NUMBER

MONITORING PERIOD							
FROM	79	09	01	TH	79	09	30
	YEAR	MO	DAY	W	YEAR	MO	DAY
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (54-61)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
Cooling Tower Blowdown Water (01B) Flow Rate	SAMPLE MEASUREMENT	2.16	4.32	MGD				0	Daily	Esti- Average mate
	PERMIT REQUIREMENT	Not Specified	Not Specified						Daily	Esti- Average mate
pH	SAMPLE MEASUREMENT				7.5	N/A	8.3	0	19/30	Grab
	PERMIT REQUIREMENT				6.0	N/A	9.0		1/2	Grab
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
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	PERMIT REQUIREMENT									

347 045

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
 J. P. O'Hanlon
 General Manager
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 imprisonment of between 6 months and 5 years.)

SIGNATURE OF PRINCIPAL EXECUTIVE
 OFFICER OR AUTHORIZED AGENT

TELEPHONE
 501 968-2519
 AREA CODE NUMBER

DATE
 79 10 15
 YEAR MO DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

POOR ORIGINAL

NAME ARKANSAS POWER & LIGHT CO
ADDRESS GENERAL MANAGER
ARK NUCLEAR P O BOX 608
RUSSELLVILLE AR 72801 R
CITY RUSSELLVILLE
LOCATION ARK

DISCHARGE MONITORING REPORT (DMR)

(2-16)

(17-19)

AR0001392

PERMIT NUMBER

002

DISCHARGE NUMBER

MONITORING PERIOD							
FROM	79	09	01	TH	79	09	30
	YEAR	MO	DAY	WEEK DAY	YEAR	MO	DAY
	(26-27)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

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PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (54-61)				NO. EX. (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-73)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
Treated Sanitary Sewage (002) Flow Rate	SAMPLE MEASUREMENT	0.0033	0.0065	MGD					0	Daily	Estimate
	PERMIT REQUIREMENT	Not Specified	Not Specified								
Biochemical Oxygen Demand	SAMPLE MEASUREMENT				N/A	7.6	12	mg/l	0	1/7	Grab
	PERMIT REQUIREMENT				N/A	30	45				
Total Suspended Solids	SAMPLE MEASUREMENT				N/A	4.6	11.5	mg/l	0	1/7	Grab
	PERMIT REQUIREMENT				N/A	30	45				
Fecal Coliform	SAMPLE MEASUREMENT				N/A	4.7	14	Number 100 ml	0	1/7	Grab
	PERMIT REQUIREMENT				N/A	200	400				
pH	SAMPLE MEASUREMENT				6.0	N/A	7.3	pH	0	1/7	Grab
	PERMIT REQUIREMENT				6.0	N/A	9.0				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
J. P. O'Hanlon
General Manager

TYPED OR PRINTED

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TELEPHONE

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AREA CODE NUMBER

DATE

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YEAR MO DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

POOR ORIGINAL