



ARKANSAS POWER & LIGHT COMPANY
POST OFFICE BOX 551 LITTLE ROCK, ARKANSAS 72203 (501) 371-4000

October 28, 1981

RECEIVED
OCT 28 1981

ARKANSAS POWER & LIGHT CO.
TECH. & ENV. SERVICES

CL-1796

Mr. Dick Whittington
Regional Administrator
U. S. Environmental Protection Agency
Region VI
First International Building
1201 Elm Street
Dallas, Texas 75270

Subject: Arkansas Nuclear One Generating Facility
NPDES Number AR0001392

Dear Mr. Whittington:

Enclosed is the Third Quarter, 1981, National Pollutant Discharge Elimination System Monitoring Report for NPDES Permit Number AR0001392, Arkansas Power & Light Company's Arkansas Nuclear One Generating Facility.

Very truly yours,

Dale L. Swindle, Ph.D.
Manager, Technical Analysis

DLS:ST:s1

Enclosure

cc: Mr. Jarrell Southall, Director
Arkansas Dept. of Pollution
Control & Ecology

8111130564 811030
PDR ADOCK 05000313
R PDR

NAME ARKANSAS POWER & LIGHT CO
ADDRESS WM CAVANAUGH III
ARK NUCLEAR-P O BOX 551
LITTLE ROCK AR 72213 4
FACILITY
LOCATION

AR0001392
PERMIT NUMBER

001
DISCHARGE NUMBER

MONITORING PERIOD
FROM YEAR MO DAY TH RU YEAR MO DAY
81 07 06 81 07 31
(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			
Once Through Cool- ing Water (001) Flow	SAMPLE MEASUREMENT	985.6	1129	MGD				0	Cont.	Reco
	PERMIT REQUIREMENT	1123	1145						Cont.	Reco
Temperature	SAMPLE MEASUREMENT	96.27	105.27	°F				0	Cont.	Reco
	PERMIT REQUIREMENT	105	110						Cont.	Reco
Free Available Chlorine	SAMPLE MEASUREMENT	1.073	2.89	kg/day	N/A	0.05	0.2	0	2/7	Grab
	PERMIT REQUIREMENT	71	181		Not Specified	0.2	0.5		1/7	Grab
	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

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

SIGNATURE OF PRINCIPAL EXECUTIVE
OFFICER OR AUTHORIZED AGENT

TELEPHONE

DATE

501
AREA
CODE

964-3100
NUMBER

81 10 18
YEAR MO DA

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

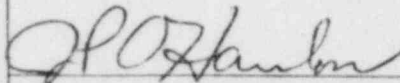
NAME **ARKANSAS POWER & LIGHT CO**
ADDRESS **WM CAVANAUGH III**
ARK NUCLEAR-P O BOX 551
LITTLE ROCK AR 72213 **4**
FACILITY
LOCATION

(2-16) AR0001392 PERMIT NUMBER	(17-19) 002 DISCHARGE NUMBER
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MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
FROM 81	07	06	TH	81	07
(20-21)	(22-23)	(24-25)	RU	(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 (46-53)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-65)	SAMPL TYPE (66-67)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
Cooling Tower Blow-down Water (002) Flow	SAMPLE MEASUREMENT	3.6	5.7	MGD				0	Daily	Esti-mate
	PERMIT REQUIREMENT	20	35						Daily	Esti-mate
Free Available Chlorine	SAMPLE MEASUREMENT	.004	.011	kg/day	N/A	0.025	0.05	0	1/7	Grab
	PERMIT REQUIREMENT	15	38		Not Specified	0.2	0.5		1/7	Grab
pH	SAMPLE MEASUREMENT				7.6	N/A	8.6	0	26/31	Grab
	PERMIT REQUIREMENT				6.0	Not Specified	9.0		1/7	Grab
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									

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J. P. O'Hanlon General Manager TYPED OR PRINTED		 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		501	964-3100	81	10

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

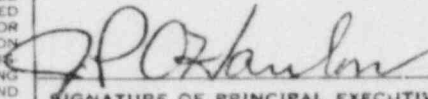
NAME **ARKANSAS POWER & LIGHT CO**
ADDRESS **WM CAVANAUGH III**
ARK NUCLEAR-P O BOX 551
LITTLE ROCK AR 72213 **4**
FACILITY
LOCATION

(2-16)		(17-19)	
AR0001392		003	
PERMIT NUMBER		DISCHARGE NUMBER	

MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
81	07	06	81	07	31
(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 (38-45)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-65)	SAMPLE TYPE (66-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
Oily Water Separator Discharge (003) Flow	SAMPLE MEASUREMENT	0.1	0.2	MGD				0	Daily	Total ized
	PERMIT REQUIREMENT	0.2	0.5						Daily	Total ized
Total Suspended Solids	SAMPLE MEASUREMENT	3.7	5.4	Kg/day	N/A	7.2	10	0	1/7	Grab
	PERMIT REQUIREMENT	23	76		Not Specified	30	100		1/7	Grab
Oil and Grease	SAMPLE MEASUREMENT	4.7	7.0	Kg/day	N/A	9.1	12.8	0	1/7	Grab
	PERMIT REQUIREMENT	11	15		Not Specified	15	20		1/7	Grab
pH	SAMPLE MEASUREMENT				7.1	N/A	8.7	0	1/7	Grab
	PERMIT REQUIREMENT				6.0	Not Specified	9.0		1/7	Grab
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
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	PERMIT REQUIREMENT									

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J. P. O'Hanlon General Manager TYPED OR PRINTED			501 AREA CODE	964-3100 NUMBER	81 YEAR

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

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 158-R06

NAME ARKANSAS POWER & LIGHT CO
ADDRESS WM CAVANAUGH III
ARK NUCLEAR-P O BOX 551
LITTLE ROCK AR 72213 4
FACILITY _____
LOCATION _____

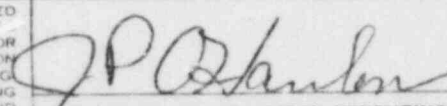
(2-16)
AR0001392
PERMIT NUMBER

(17-19)
004
DISCHARGE NUMBER

MONITORING PERIOD
FROM YEAR MO DAY YEAR MO DAY
81 07 06 TH 81 07 31
(20-21) (22-23) (24-25) RU (26-27) (28-29) (30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (45-53)			(4 Card Only) QUALITY OR CONCENTRATION (38-45) (45-53) (54-61)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPL TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
Low Volume Waste Water (004) Flow	SAMPLE MEASUREMENT	0.13	0.32 *	MGD					0	Each Release	Total ized
	PERMIT REQUIREMENT	0.15	0.3							Each Release	Total ized
Total Suspended Solids	SAMPLE MEASUREMENT	7.8	15.8	Kg/day	N/A	15.0	27.5	mg/l	0	1/7	Grab
	PERMIT REQUIREMENT	17.1	Not Specified		Not Specified	30	100			1/7	Grab
Oil and Grease	SAMPLE MEASUREMENT	0.6	1.0	Kg/day	N/A	1.1	1.8	mg/l	0	1/7	Grab
	PERMIT REQUIREMENT	8.5	Not Specified		Not Specified	15	20			1/7	Grab
pH	SAMPLE MEASUREMENT				6.2	N/A	9.0	pH	0	1/7	Grab
	PERMIT REQUIREMENT				6.0	Not Specified	9.0			1/7	Grab
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
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	PERMIT REQUIREMENT										

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J. P. O'Hanlon General Manager TYPED OR PRINTED			501 964-3100	81	10	16

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

*This maximum value occurred prior to the effective date of this permit. Previous permit did not have a maximum value.

NAME ARKANSAS POWER & LIGHT CO
ADDRESS WM CAVANAUGH III
ARK NUCLEAR-P O BOX 551
LITTLE ROCK AR 72213 4
FACILITY _____
LOCATION _____

(2-16)
AR0001392
PERMIT NUMBER

(17-19)
005
DISCHARGE NUMBER

MONITORING PERIOD
FROM YEAR MO DAY YEAR MO DAY
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(20-21) (22-23) (24-25) RU (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)			UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPL TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM				
Sanitary Sewage Discharge (005) Flow	SAMPLE MEASUREMENT	0.01	.02	MGD					0	Daily	Esti- mate
	PERMIT REQUIREMENT	0.025	0.1005							Daily	Esti- mate
Total Suspended Solids	SAMPLE MEASUREMENT				N/A	17.0	30	mg/l	0	1/7	Grab
	PERMIT REQUIREMENT				Not Specified	30	45			1/7	Grab
Biochemical Oxygen Demand	SAMPLE MEASUREMENT				N/A	1.7	21.3	mg/l	0	1/7	Grab
	PERMIT REQUIREMENT				Not Specified	30	45			1/7	Grab
pH	SAMPLE MEASUREMENT				6.6	N/A	7.4	pH	0	1/7	Grab
	PERMIT REQUIREMENT				6.0	Not Specified	9.0			1/7	Grab
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

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J. P. O'Hanlon
General Manager

TYPED OR PRINTED

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33 U.S.C. § 1319. (Penalties under these statutes may include 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
AREA
CODE

964-3100

NUMBER

DATE

81 10 15

YEAR MO DA

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

NAME ARKANSAS POWER & LIGHT CO
ADDRESS WM CAVANAUGH III
ARK NUCLEAR-P O BOX 551
LITTLE ROCK AR 72213 4
FACILITY _____
LOCATION _____

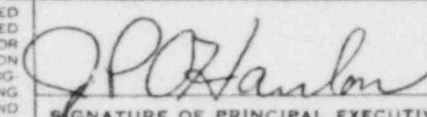
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		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
Once Through Cool- ing Water (001) Flow	SAMPLE MEASUREMENT	1046.4	1129	MGD				0	Cont.	Reco
	PERMIT REQUIREMENT	1123	1145						Cont.	Reco
Temperature	SAMPLE MEASUREMENT	93.75	101.48	°F				0	Cont.	Reco
	PERMIT REQUIREMENT	105	110						Cont.	Reco
Free Available Chlorine	SAMPLE MEASUREMENT	1.90	7.2	Kg/day	N/A	0.07	0.25	0	2/7	Grab
	PERMIT REQUIREMENT	71	181		Not Specified	0.2	0.5		1/7	Grab
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
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J. P. O'Hanlon General Manager TYPED OR PRINTED			501 964-3100	81 10 15	AREA CODE	NUMBER	YEAR

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

NAME ARKANSAS POWER & LIGHT CO
ADDRESS WM CAVANAUGH III
ARK NUCLEAR-P O BOX 551
LITTLE ROCK AR 72213 4
FACILITY _____
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		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM				
Cooling Tower Blow-down Water (002) Flow	SAMPLE MEASUREMENT	3.86	5.76	MGD					0	Daily	Estimate
	PERMIT REQUIREMENT	20	35							Daily	Estimate
Free Available Chlorine	SAMPLE MEASUREMENT	0.016	0.022	kg/day	N/A	.04	.05	mg/l	0	1/7	Grab
	PERMIT REQUIREMENT	15	38		Not Specified	0.2	0.5			1/7	Grab
pH	SAMPLE MEASUREMENT				7.8	N/A	8.5	pH	0	22/31	Grab
	PERMIT REQUIREMENT				6.0	Not Specified	9.0			1/7	Grab
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
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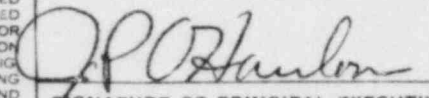
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		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
Oily Water Separator Discharge (003) Flow	SAMPLE MEASUREMENT	0.16	0.21	MGD					0	Daily	Total ized
	PERMIT REQUIREMENT	0.2	0.5							Daily	Total ized
Total Suspended Solids	SAMPLE MEASUREMENT	21.9	86.5	Kg/day	N/A	36.8	* 145	mg/l	1	1/7	Grab
	PERMIT REQUIREMENT	23	76		Not Specified	30	100			1/7	Grab
Oil and Grease	SAMPLE MEASUREMENT	9.7	15.3	Kg/day	N/A	9.7	* 25.6	mg/l	1	1/7	Grab
	PERMIT REQUIREMENT	11	15		Not Specified	15	20			1/7	Grab
pH	SAMPLE MEASUREMENT				6.9	N/A	8.7	pH	0	1/7	Grab
	PERMIT REQUIREMENT				6.0	Not Specified	9.0			1/7	Grab
	SAMPLE MEASUREMENT										
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J. P. O'Hanlon General Manager TYPED OR PRINTED			501 964-3100 AREA CODE NUMBER	81 10 12 YEAR MO DA		

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

REF CL-1736



AAR

T Baker

ARKANSAS POWER & LIGHT COMPANY
FIRST NATIONAL BUILDING/P.O. BOX 551/LITTLE ROCK, ARKANSAS 72203/(501) 371-4422

OR NPDE

August 31, 1981

WILLIAM CAVANAUGH, III
Senior Vice President
Energy Supply

CL-1736

Ms. Fran Phillips
Acting Regional Administrator
U. S. Environmental Protection
Agency
Region VI
First International Building
1201 Elm Street
Dallas, Texas 75270

REFERENCE: Arkansas Nuclear One
NPDES Permit Number AR0001392

RECEIVED
SEP 2 1981
ARKANSAS POWER & LIGHT CO.
ARKANSAS NUCLEAR ONE

Dear Ms. Phillips:

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

On Monday August 24, 1981 routine sampling at sample point 003, oily water separator discharge, resulted in determinations of 25.6 mg/l and 15.3 kg/day oil and grease and 145 mg/l and 86.5 kg/day total suspended solids. Permit limits are 20 and 100 mg/l and 15 and 76 kg/day daily maximum, respectively. The flow for this date was 157,700 gallons per day and further testing gave results of 20.7 mg/l oil and grease and 17.5 mg/l TSS. A sample taken at 8:00 a.m. the next day showed oil and grease to be below the daily maximum allowed.

Investigation has revealed the cause of this violation to be associated with oil flushing of a feedwater pump as it was being returned to service. During the previous week a large volume of oil and water was transferred from the turbine lube oil system to a dirty oil storage tank for holding prior to cleanup of the oil. Water that had separated from the oil was discharged to the building sump which in turn discharges to the oily water separator and polisher. Apparently the separator and polisher were overloaded by the volume of wastewater put to them. To correct this problem our operations and maintenance personnel have adopted a plan which provides that future wastewater discharges from the dirty

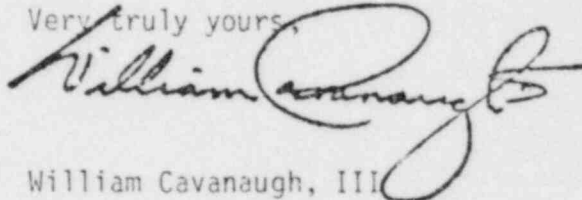
CL-1736
Ms. Fran Phillips

-2-

August 31, 1981

oil storage tank will be collected in barrels. These barrels in turn will be processed at a rate that does not upset the oily water separator system. We feel that these actions should prevent a violation of this sort from happening again.

Very truly yours,



William Cavanaugh, III

WC/EG/ew

cc: Messrs. J. L. Maulden
C. L. Steel
D. P. Moran
W. C. Coleman
Dr. D. L. Swindle
D. A. Rueter
J. D. Jackson
J. M. Griffin
J. P. O'Hanlon
J. Southall, Director
Arkansas Department of Pollution Control
and Ecology

THIS COPY FOR

NAME ARKANSAS POWER & LIGHT CO
ADDRESS WM CAVANAUGH III
ARK NUCLEAR-P O BOX 551
LITTLE ROCK AR 72213 4
FACILITY _____
LOCATION _____

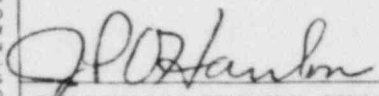
(2-16)
AR0001392
PERMIT NUMBER

(17-19)
004
DISCHARGE NUMBER

MONITORING PERIOD
FROM YEAR MO DAY TH YEAR MO DAY
81 08 01 81 08 31
(20-21) (22-23) (24-25) RU (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 (38-45)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
Low Volume Waste Water (004) Flow	SAMPLE MEASUREMENT	0.1	.21	MGD				0	Each Release	Total ized
	PERMIT REQUIREMENT	0.15	0.3							
Total Suspended Solids	SAMPLE MEASUREMENT	7.7	15.9	Kg/day	N/A	18.1	29	0	1/7	Grab
	PERMIT REQUIREMENT	17.1	Not Specified		Not Specified	30	100			
Oil and Grease	SAMPLE MEASUREMENT	0.6	1.0	Kg/day	N/A	1.6	2.5	0	1/7	Grab
	PERMIT REQUIREMENT	8.5	Not Specified		Not Specified	15	20			
pH	SAMPLE MEASUREMENT				6.1	N/A	9.0	0	1/7	Grab
	PERMIT REQUIREMENT				6.0	Not Specified	9.0			
	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	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 16 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)	 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE		DATE		
			501	964-3100	81	10	15

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

PERMITTEE NAME ADDRESS (Include Facility Name/Location if different)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 158-0001

NAME ARKANSAS POWER & LIGHT CO
ADDRESS WM CAVANAUGH III
ARK NUCLEAR-P O BOX 551
LITTLE ROCK AR 72213
FACILITY _____
LOCATION _____

(2-16) AR0001392
PERMIT NUMBER

(17-19) 005
DISCHARGE NUMBER

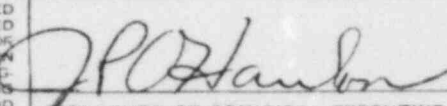
MONITORING PERIOD

YEAR	MO	DAY	YEAR	MO	DAY
81	08	01	81	08	31

FROM (20-21) (22-23) (24-25) TH (26-27) (28-29) (30-31) RU

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (38-45)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-65)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
Sanitary Sewage Discharge (005) Flow	SAMPLE MEASUREMENT	0.008	0.021	MGD					0	Daily	Esti- mate
	PERMIT REQUIREMENT	0.025	0.1005							Daily	Esti- mate
Total Suspended Solids	SAMPLE MEASUREMENT				N/A	5.4	12.5	mg/l	0	1/7	Grab
	PERMIT REQUIREMENT				Not Specified	30	45			1/7	Grab
Biochemical Oxygen Demand	SAMPLE MEASUREMENT				N/A	12.2	16	mg/l	0	1/7	Grab
	PERMIT REQUIREMENT				Not Specified	30	45			1/7	Grab
pH	SAMPLE MEASUREMENT				6.5	N/A	6.9	pH	0	1/7	Grab
	PERMIT REQUIREMENT				6.0	Not Specified	9.0			1/7	Grab
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
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	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)	 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE	DATE		
J. P. O'Hanlon General Manager TYPED OR PRINTED			501	964-3100	81	10

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

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 158-RC07

NAME ARKANSAS POWER & LIGHT CO
ADDRESS WM CAVANAUGH III
ARK NUCLEAR-P O BOX 551
LITTLE ROCK AR 72213 4

AR0001392
PERMIT NUMBER

001
DISCHARGE NUMBER

FACILITY
LOCATION

MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
81	09	01	81	09	30
(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)	SAMPL TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
Once Through Cooling Water (001) Flow	SAMPLE MEASUREMENT	1120.1	1143.2	MGD				0	Cont.	Recon
	PERMIT REQUIREMENT	1123	1145						Cont.	Recon
Temperature	SAMPLE MEASUREMENT	92.4	98.4	°F				0	Cont.	Recon
	PERMIT REQUIREMENT	105	110						Cont.	Recon
Free Available Chlorine	SAMPLE MEASUREMENT	1.99	8.7	Kg/day	N/A	0.0545	0.1	0	2/7	Grab
	PERMIT REQUIREMENT	71	181		Not Specified	0.2	0.5		1/7	Grab
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319. (Penalties under these statutes may include 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

DATE

J. P. O'Hanlon
General Manager

TYPED OR PRINTED

501
AREA
CODE

964-3100
NUMBER

81 10 15
YEAR MO DA

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

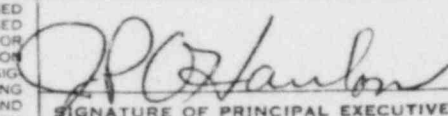
NAME **ARKANSAS POWER & LIGHT CO**
ADDRESS **WM CAVANAUGH III**
ARK NUCLEAR-P O BOX 551
LITTLE ROCK AR 72213 4
FACILITY
LOCATION

(2-16) **AR0001392** (17-19) **002**
PERMIT NUMBER DISCHARGE NUMBER

MONITORING PERIOD
YEAR MO DAY YEAR MO DAY
FROM **81 09 01 TH** **81 09 30**
(20-21) (22-23) (24-25) **RU** (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 Blow-down Water (002) Flow	SAMPLE MEASUREMENT	5.09	5.76	MGD				0	Daily	Esti- mate
	PERMIT REQUIREMENT	20	35						Daily	Esti- mate
Free Available Chlorine	SAMPLE MEASUREMENT	0.013	0.023	kg/day	N/A	0.03	0.05	0	1/7	Grab
	PERMIT REQUIREMENT	15	38		Not Specified	0.2	0.5		1/7	Grab
pH	SAMPLE MEASUREMENT				7.4	N/A	8.5	0	15/30	Grab
	PERMIT REQUIREMENT				6.0	Not Specified	9.0		1/7	Grab
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
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	PERMIT REQUIREMENT									

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J. P. O'Hanlon General Manager TYPED OR PRINTED			501 AREA CODE	964-3100 NUMBER	31 YEAR	10 MO

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

NAME **ARKANSAS POWER & LIGHT CO**
ADDRESS **WM CAVANAUGH III**
ARK NUCLEAR-P O BOX 551
LITTLE ROCK AR 72213 4
FACILITY
LOCATION

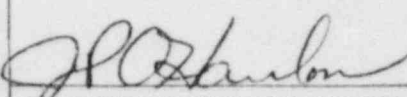
AR0001392
PERMIT NUMBER

003
DISCHARGE NUMBER

MONITORING PERIOD
FROM YEAR MO DAY YEAR MO DAY
81 09 01 TH 81 09 30
(20 21) (22 23) (24 25) RU (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 (64-65)	SAMPL TYPE (66-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
Oily Water Separator Discharge (003) Flow	SAMPLE MEASUREMENT	0.177	0.321	MGD				0	Daily	Total- ized
	PERMIT REQUIREMENT	0.2	0.5						Daily	Total- ized
Total Suspended Solids	SAMPLE MEASUREMENT	2.5	5.21	Kg/day	N/A	4.34	8.5	0	1/7	Grab
	PERMIT REQUIREMENT	23	76		Not Specified	30	100		1/7	Grab
Oil and Grease	SAMPLE MEASUREMENT	6.23	8.28	Kg/day	N/A	10.6	13.5	0	1/7	Grab
	PERMIT REQUIREMENT	11	15		Not Specified	15	20		1/7	Grab
pH	SAMPLE MEASUREMENT				6.9	N/A	7.8	0	1/7	Grab
	PERMIT REQUIREMENT				6.0	Not Specified	9.0		1/7	Grab
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
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	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)	 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE	DATE		
TYPED OR PRINTED			501 AREA CODE	964-3100 NUMBER	8/10/15 YEAR	MO

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

PERMITTEE NAME/ADDRESS (Include
Facility Name/Location if different)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 168-0001

NAME ARKANSAS POWER & LIGHT CO
ADDRESS WM. CAVANAUGH III
ARK NUCLEAR-P O BOX 551
LITTLE ROCK AR 72213 4
FACILITY _____
LOCATION _____

(2-16)
AR0001392
PERMIT NUMBER

(17-19)
004
DISCHARGE NUMBER

MONITORING PERIOD
FROM YEAR MO DAY TH YEAR MO DAY
81 09 01 TH 81 09 30
(20-21) (22-23) (24-25) RU (26-27) (28-29) (30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53)			(* Card Only) QUALITY OR CONCENTRATION (38-45)			NO. EX	FREQUENCY OF ANALYSIS (54-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
Low Volume Waste Water (004) Flow	SAMPLE MEASUREMENT	0.13	0.229	MGD				0	Each	Total
	PERMIT REQUIREMENT	0.15	0.3						Release	Total
Total Suspended Solids	SAMPLE MEASUREMENT	3.3	3.4	Kg/day	N/A	9.3	14.5	0	1/7	Grab
	PERMIT REQUIREMENT	17.1	Not Specified		Not Specified	30	100		1/7	Grab
Oil and Grease	SAMPLE MEASUREMENT	0.8	1.6	Kg/day	N/A	2.0	3.5	0	1/7	Grab
	PERMIT REQUIREMENT	8.5	Not Specified		Not Specified	15	20		1/7	Grab
pH	SAMPLE MEASUREMENT				6.1	N/A	9.0	0	1/7	Grab
	PERMIT REQUIREMENT				6.0	Not Specified	9.0		1/7	Grab
	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

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED
AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED
ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR
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THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND
33 USC § 1319. (Penalties under these statutes may include fines up to \$10,000
and/or maximum imprisonment of between 6 months and 5 years.)

SIGNATURE OF PRINCIPAL EXECUTIVE
OFFICER OR AUTHORIZED AGENT

TELEPHONE

DATE

501
AREA
CODE

964-3100
NUMBER

81 10 15
YEAR MO DA

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

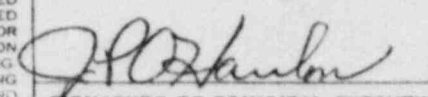
NAME **ARKANSAS POWER & LIGHT CO**
ADDRESS **WM CAVANAUGH III**
ARK NUCLEAR-P O BOX 551
LITTLE ROCK AR 72213 **4**
FACILITY
LOCATION

(2-16)		(17-19)	
AR0001392		005	
PERMIT NUMBER		DISCHARGE NUMBER	

MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
FROM 81	09	01	TH	81	09
(20-21)	(22-23)	(24-25)	RU	(26-27)	(28-29)
				30	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) (46-53)			(4 Card Only) (38-45)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-65)	SAMPL TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
Sanitary Sewage Discharge (005) Flow	SAMPLE MEASUREMENT	0.008	0.025	MGD					0	Daily	Esti- mate
	PERMIT REQUIREMENT	0.025	0.1005							Daily	Esti- mate
Total Suspended Solids	SAMPLE MEASUREMENT				N/A	3.88	6	mg/l	0	1/7	Grab
	PERMIT REQUIREMENT				Not Specified	30	45			1/7	Grab
Biochemical Oxygen Demand	SAMPLE MEASUREMENT				N/A	14.05	34	mg/l	0	1/7	Grab
	PERMIT REQUIREMENT				Not Specified	30	45			1/7	Grab
pH	SAMPLE MEASUREMENT				6.4	N/A	7.2	pH	0	1/7	Grab
	PERMIT REQUIREMENT				6.0	Not Specified	9.0			1/7	Grab
	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	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)	 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE	DATE			
			501 964-3100	81	10	15	
TYPED OR PRINTED			AREA CODE	NUMBER	YEAR	MO	DA

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