



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

March 19, 1981

GR-0381-07

Mr. M. R. Beebe  
U. S. Nuclear Regulatory Commission  
Office of Management and Program Analysis  
Licensee Operations Evaluation Branch  
Washington, D.C. 20555



SUBJECT: Arkansas Nuclear One - Units 1 & 2  
Docket Nos. 50-313 and 50-368  
License Nos. DPR-51 and NPF-6  
Radioactive Effluent Summary  
(File: 1510 and 2-1510)

Gentlemen:

As a result of your letter dated February 26, 1981, we have reviewed the draft copy of the data in the enclosure as requested. Corrections that should be made to this report are identified on the enclosed draft report.

If you have any questions concerning these corrections, please contact us.

Very truly yours,

*David C. Trimble*

David C. Trimble  
Manager, Licensing

DCT:GAC:lp  
300  
Attachment

P 8103240 239

INSTALLATION ADKASAS ONE 1

LOCATION A MI NW POSELLVILLE AR

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT FOR YEAR 1979

SUPPLEMENTAL INFORMATION

UNIT NUMBER

TYPE PUMP

DOCKET NO. 50-313

COOLING WATER SOURCE GADSDENVILLE RESERVOIR

LICENSEE ADKASAS POWER PLANT

LICENSED POWER (MW) 2560.0

INITIAL CALICULTY 08/06/74

MAXIMUM PERMISSIBLE CONCENTRATIONS (MICROCURI/ML)

MEASUREMENTS AND APPROXIMATIONS OF TOTAL RADIOACTIVITY

6012010000

N/A=NOT APPLICABLE

N/O=NOT DETECTED

N/D=NOT REPORTED

INSTALLATION ARKANSAS ONE 1 LOCATION 6 MI NW MOSSFILLVILLE AR

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT FOR YEAR 1979  
SUPPLEMENTAL INFORMATION

AVERAGE ENERGY (REV/DISINTEGRATION)

META		QUARTER		QUARTER	
QUARTER	QUARTER	QUARTER	QUARTER	QUARTER	QUARTER
1	2	1	2	1	2

10 BATCH RELEASES

A. LIQUID

1. NUMBER OF BATCH RELEASES-
2. TOTAL TIME PERIOD FOR BATCH RELEASE (MIN)-
3. MAXIMUM TIME PERIOD FOR A BATCH RELEASE (MIN)-
4. AVERAGE TIME PERIOD FOR BATCH RELEASES (MIN)-
5. MINIMUM TIME PERIOD FOR A BATCH RELEASE (MIN)-
6. AVERAGE STREAM FLOW DURING PERIODS OF RELEASE OF EFFLUENT INTO A FLOWING STREAM (L/S/MIN)-

B. GASEOUS

1. NUMBER OF BATCH RELEASES-
2. TOTAL TIME PERIOD FOR BATCH RELEASES (MIN)-
3. MAXIMUM TIME PERIOD FOR A BATCH RELEASE (MIN)-
4. AVERAGE TIME PERIOD FOR BATCH RELEASES (MIN)-
5. MINIMUM PERIOD FOR A BATCH RELEASE (MIN)-

ANNUAL RELEASES

A. LIQUID

1. NUMBER OF RELEASES
2. TOTAL ACTIVITY RELEASED (CURIES)

B. GASEOUS

1. NUMBER OF RELEASES
2. TOTAL ACTIVITY RELEASED (CURIES)

N/A=NOT APPLICABLE

N/D=NOT DETECTED

N/R=NOT REPORTED

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT FOR YEAR 1970

SUPPLEMENTAL INFORMATION

AVERAGE ENERGY (MEV/DISINTEGRATION)

QUARTER				SEMI-ANNUAL			
1	2	3	4	1	2	3	4

QUARTER QUARTER

HATCH RELEASES

1. NUMBER OF HATCH RELEASES-
2. TOTAL TIME PERIOD FOR HATCH RELEASES(MIN)-
3. MAXIMUM TIME PERIOD FOR A HATCH RELEASE(MIN)-
4. AVERAGE TIME PERIOD FOR HATCH RELEASES(MIN)-
5. MINIMUM TIME PERIOD FOR A HATCH RELEASE(MIN)-
6. AVERAGE STREAM FLOW DURING PERIODS OF RELEASE OF EFFLUENT INTO A FLOWING STREAM(L/S/MIN)-

H. GASFOUS

1. NUMBER OF HATCH RELEASES-
2. TOTAL TIME PERIOD FOR HATCH RELEASES(MIN)-
3. MAXIMUM TIME PERIOD FOR A HATCH RELEASE(MIN)-
4. AVERAGE TIME PERIOD FOR HATCH RELEASES(MIN)-
5. MINIMUM PERIOD FOR A HATCH RELEASE(MIN)-

ABNORMAL RELEASES

1. NUMBER OF RELEASES
2. TOTAL ACTIVITY RELEASED (CURIES)
3. GASFOUS
1. NUMBER OF RELEASES
2. TOTAL ACTIVITY RELEASED (CURIES)

N/A=NOT APPLICABLE  
N/D=NOT DETECTED  
N/R=NOT REPORTED

INSTALLATION=ADAKASCAS ONE 1

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT 1979

GASEOUS EFFLUENTS-SUMMATION OF ALL RELEASES

UNIT	QUARTER 1	QUARTER 2	EST. TOTAL
			100000.8

A. FISSION AND ACTIVATION GASES

1. TOTAL RELEASE	CI	2.41E-03	6.13E-02
2. AVERAGE RELEASE RATE FOR PERIOD	UCI/SEC		
3. PERCENT OF TECHNICAL SPECIFICATION LIMIT	%	4.74E-01	9.69E-01

B. IODINES

1. TOTAL IODINE-131	CI	1.94E-03	6.50E-04
2. AVERAGE RELEASE RATE FOR PERIOD	UCI/SEC		
3. PERCENT OF TECHNICAL SPECIFICATION LIMIT	%		

C. PARTICULATES

1. PARTICULATES WITH HALF-LIVES > 8 DAYS	CI		
2. AVERAGE RELEASE RATE FOR PERIOD	UCI/SEC		
3. PERCENT OF TECHNICAL SPECIFICATION LIMIT	%		
4. GROSS ALPHA RADIOACTIVITY	CI	0.00E-00	0.00E-00

D. TELLURIUM

1. TOTAL RELEASE	CI	5.20E-01	8.80E-01
2. AVERAGE RELEASE RATE FOR PERIOD	UCI/SEC		
3. PERCENT OF TECHNICAL SPECIFICATION LIMIT	%		

N/A=NOT APPLICABLE  
N/D=NOT DETECTED  
N/R=NOT REPORTED

## EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT 1979

## GASEOUS EFFLUENTS-SUMMATION OF ALL RELEASES

UNIT	QUARTER 3	QUARTER 4	EST. TOTAL EQUIVALENT
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## A. FISSION AND ACTIVATION GASES

1. TOTAL RELEASE	CI	1.22E-03	4.27E-03
2. AVERAGE RELEASE RATE FOR PERIOD	UCI/SEC		
3. PERCENT OF TECHNICAL SPECIFICATION LIMIT	%	7.40E-00	1.90E-01

## B. IODINES

1. TOTAL IODINE-131	CI	1.55E-04	1.72E-03
2. AVERAGE RELEASE RATE FOR PERIOD	UCI/SEC		
3. PERCENT OF TECHNICAL SPECIFICATION LIMIT	%		

## C. PARTICULATES

1. PARTICULATES WITH HALF-LIVES > 8 DAYS	CI		
2. AVERAGE RELEASE RATE FOR PERIOD	UCI/SEC		
3. PERCENT OF TECHNICAL SPECIFICATION LIMIT	%		
4. GROSS ALPHA RADIOACTIVITY	CI	0.00E-00	1.64E-00

## D. TRITIUM

1. TOTAL RELEASE	CI	9.70E-01	1.03E-01
2. AVERAGE RELEASE RATE FOR PERIOD	UCI/SEC		
3. PERCENT OF TECHNICAL SPECIFICATION LIMIT	%		

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N/R=NOT REPORTED



## EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT 1979

## GAS EFFLUENTS GROUND RELEASE

NUCLIDES RELEASED	UNIT	CONTINUOUS MONITORING		BATCH MONITORING	
		QUARTER 1	QUARTER 2	QUARTER 1	QUARTER 2
FISSION GASES					
AG-110M	CI	0.00E 00	5.50E-05		
AR-41	CI	0.00E 00	0.00E 00		
BA-133	CI	0.00E 00	0.00E 00		
BA-139	CI	0.00E 00	0.00E 00		
BE-7	CI	0.00E 00	0.00E 00		
BI-214	CI	0.00E 00	0.00E 00		
BK-84	CI	0.00E 00	0.00E 00		
BU-100	CI	0.00E 00	0.00E 00		
CU-113M	CI	0.00E 00	0.00E 00		
CE-139	CI	0.00E 00	0.00E 00		
CE-144	CI	0.00E 00	0.00E 00		
CO-57	CI	0.00E 00	0.00E 00		
CO-58	CI	1.31E-05	1.25E-05		
CO-60	CI	7.91E-06	3.65E-05		
CR-51	CI	0.00E 00	0.00E 00		
CS-136	CI	0.00E 00	0.00E 00		
CS-138	CI	0.00E 00	0.00E 00		
CU-64	CI	0.00E 00	0.00E 00		
EU-152	CI	0.00E 00	0.00E 00		
FE-59	CI	0.00E 00	0.00E 00		
F-18	CI	0.00E 00	0.00E 00		
H0-203	CI	0.00E 00	0.00E 00		
I-135	CI	0.00E 00	0.00E 00		
I-136	CI	0.00E 00	0.00E 00		
KR-85	CI	0.00E 00	0.00E 00		
KR-85M	CI	1.01E 01	0.00E 00		
KR-87	CI	1.31E 01	0.00E 00		
KR-88	CI	1.31E 01	0.00E 00		
K-40	CI	0.00E 00	0.00E 00		
MA-54	CI	0.00E 00	7.97E-07		
MA-56	CI	0.00E 00	0.00E 00		
MO-99	CI	0.00E 00	0.00E 00		
NA-24	CI	0.00E 00	0.00E 00		
NI-64	CI	0.00E 00	0.00E 00		
NI-65	CI	0.00E 00	0.00E 00		
NI-66	CI	0.00E 00	0.00E 00		
NI-212	CI	0.00E 00	0.00E 00		
PD-214	CI	0.00E 00	0.00E 00		
RA-226	CI	0.00E 00	0.00E 00		
RE-166	CI	0.00E 00	0.00E 00		
RU-103	CI	0.00E 00	0.00E 00		
RU-106	CI	0.00E 00	0.00E 00		
RU-122	CI	0.00E 00	0.00E 00		

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EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT 1974

GAS EFFLUENTS GROUND RELEASE

NUCLIDES RELEASED UNIT QUARTER 1 CONTINUOUS MODE QUARTER 2 MATCH QUARTER 1 QUARTER 2

SH-124	CI	0.00E 00	0.00E 00	0.00E 00	
SH-125	CI	0.00E 00	0.00E 00	0.00E 00	
SE-75	CI	0.00E 00	0.00E 00	0.00E 00	
SN-113	CI	0.00E 00	0.00E 00	0.00E 00	
SN-85	CI	0.00E 00	0.00E 00	0.00E 00	
SN-91	CI	0.00E 00	0.00E 00	0.00E 00	
SN-92	CI	0.00E 00	0.00E 00	0.00E 00	
TC-00M	CI	0.00E 00	0.00E 00	0.00E 00	
TE-132	CI	0.00E 00	0.00E 00	0.00E 00	
TH-22A	CI	0.00E 00	0.00E 00	0.00E 00	
U-235	CI	0.00E 00	0.00E 00	0.00E 00	
W-187	CI	0.00E 00	0.00E 00	0.00E 00	
XE-131M	CI	1.24E 00	0.00E 00	0.00E 00	
XE-132	CI	2.24E 03	6.13E 02		
XE-133M	CI	3.28E 01	0.00E 00		
XE-135	CI	9.20E 01	0.00E 00		
XE-135M	CI	0.00E 00	0.00E 00		
XE-138	CI	0.00E 00	0.00E 00		
Y-94	CI	1.36E-05	0.00E 00		
Y-91M	CI	0.00E 00	0.00E 00		
Y-92	CI	0.00E 00	0.00E 00		
ZR-65	CI	0.00E 00	0.00E 00		
ZR-95	CI	0.00E 00	0.00E 00		
ZR-97	CI	0.00E 00	0.00E 00		
100 INES					
I-131	CI	1.91E-03	6.25E-04		
I-133	CI	3.40E-05	1.31E-05		
I-135	CI	0.00E 00	0.00E 00		
PRACTICATES					
HA-140	CI	0.00E 00	0.00E 00		
CS-134	CI	3.99E-06	3.24E-06		
CS-137	CI	6.46E-06	4.83E-06		
LA-140	CI	0.00E 00	0.00E 00		
SH-89	CI	7.00E-11	0.00E 00		
SH-90	CI	0.00E 00	1.43E-12		

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INSTALLATION=ARKANSAS ONE 1

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT 1979

GAS EFFLUENTS GROUPED RELEASE

CONTINUOUS MODE

BATCH MODE

NUCLIDES RELEASED

UNIT

QUARTER  
3

QUARTER  
4

QUARTER  
3

QUARTER  
4

FISSION GASES

AG-110M	CI	0.00E 00	0.00E 00
AH-41	CI	0.00E 00	4.46E-05
HA-133	CI	0.00E 00	0.00E 00
HA-139	CI	0.00E 00	0.00E 00
HE-7	CI	0.00E 00	0.00E 00
HI-214	CI	0.00E 00	0.00E 00
HQ-84	CI	0.00E 00	0.00E 00
CO-109	CI	0.00E 00	0.00E 00
CO-113A	CI	0.00E 00	0.00E 00
CE-139	CI	0.00E 00	0.00E 00
CE-144	CI	1.28E-11	0.00E 00
CO-57	CI	3.59E-06	8.14E-06
CO-58	CI	2.86E-06	1.98E-05
CO-60	CI	0.00E 00	0.00E 00
CR-51	CI	0.00E 00	0.00E 00
CS-136	CI	0.00E 00	0.00E 00
CS-138	CI	0.00E 00	0.00E 00
CU-64	CI	0.00E 00	0.00E 00
EU-152	CI	0.00E 00	0.00E 00
FE-59	CI	0.00E 00	0.00E 00
F-18	CI	0.00E 00	0.00E 00
HG-203	CI	0.00E 00	0.00E 00
I-132	CI	0.00E 00	0.00E 00
I-134	CI	0.00E 00	5.40E 00
KR-82	CI	2.93E 01	4.40E 01
KR-REM	CI	0.00E 00	0.00E 00
KR-87	CI	1.80E 01	2.00E 00
KR-PR	CI	0.00E 00	0.00E 00
K-40	CI	0.00E 00	0.00E 00
MN-54	CI	0.00E 00	0.00E 00
MN-56	CI	0.00E 00	0.00E 00
MO-99	CI	0.00E 00	0.00E 00
NA-24	CI	0.00E 00	0.00E 00
N4-94	CI	0.00E 00	0.00E 00
NB-85	CI	0.00E 00	0.00E 00
N4-97	CI	0.00E 00	0.00E 00
NI-62	CI	0.00E 00	0.00E 00
NP-230	CI	0.00E 00	0.00E 00
PH-212	CI	0.00E 00	0.00E 00
PH-214	CI	0.00E 00	0.00E 00
RA-226	CI	0.00E 00	0.00E 00
RB-88	CI	0.00E 00	0.00E 00
RB-90	CI	0.00E 00	0.00E 00
RU-103	CI	0.00E 00	0.00E 00
RU-106	CI	0.00E 00	0.00E 00
Sd-122	CI	0.00E 00	0.00E 00

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N/R=NOT REPORTED

## EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT 1974

## GAS EFFLUENTS GROUND RELEASE

NUCLIDES RELEASED	UNIT	CONTINUOUS MODE		BATCH MODE	
		QUANTITY	QUANTITY	QUANTITY	QUANTITY
		3	4	3	4
SR-124	CI	0.00E+00	0.00E+00		
SR-125	CI	0.00E+00	0.00E+00		
SE-75	CI	0.00E+00	0.00E+00		
SA-113	CI	0.00E+00	0.00E+00		
SR-85	CI	0.00E+00	0.00E+00		
SR-91	CI	0.00E+00	0.00E+00		
SR-92	CI	0.00E+00	0.00E+00		
TC-99M	CI	0.00E+00	0.00E+00		
TC-132	CI	0.00E+00	0.00E+00		
TH-228	CI	0.00E+00	0.00E+00		
U-235	CI	0.00E+00	0.00E+00		
U-238	CI	0.00E+00	0.00E+00		
U-187	CI	0.00E+00	0.00E+00		
XE-131M	CI	0.00E+00	1.70E+00		
XE-133	CI	0.96E+02	3.65E+03		
XE-133M	CI	1.90E+01	4.34E+01		
XE-135	CI	1.71E+02	2.21E+02		
XE-135M	CI	0.00E+00	0.00E+00		
XE-138	CI	0.00E+00	0.00E+00		
Y-84	CI	0.00E+00	0.00E+00		
Y-91M	CI	0.00E+00	0.00E+00		
Y-92	CI	0.00E+00	0.00E+00		
ZN-65	CI	0.00E+00	0.00E+00		
ZR-95	CI	0.00E+00	0.00E+00		
ZR-97	CI	0.00E+00	0.00E+00		

## IODINES

I-131	CI	1.05E+04	1.64E+03
I-133	CI	5.00E+05	8.12E+05
I-135	CI	0.00E+00	0.00E+00

## PARTICULATES

HA-140	CI	0.00E+00	0.00E+00
CS-134	CI	1.13E+06	1.71E+07
CS-137	CI	4.94E+05	7.44E+06
LA-140	CI	0.00E+00	0.00E+00
SR-89	CI	1.22E+10	4.56E+06
SR-90	CI	0.00E+00	0.00E+00

N/A=NOT APPLICABLE

N/D=NOT DETECTED

N/R=NOT REPORTED

## EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT 1970

## LIQUID EFFLUENTS-SUMMARY OF ALL RELEASES

UNIT	QUANTITY	QUANTITY	EST. TOTAL
	1	2	THROUS

## A. FISSION AND ACTIVATION PRODUCTS

## 1. TOTAL RELEASES (NOT INCLUDING TRITIUM,

GASES, ALPHA)

## 2. AVERAGE DILUTED CONCENTRATION

DURING PERIOD

## 3. PERCENT OF APPLICABLE LIMIT

## B. TRITIUM

## 1. TOTAL RELEASE

## 2. AVERAGE DILUTED CONCENTRATION

DURING PERIOD

## 3. PERCENT OF APPLICABLE LIMIT

## C. DISSOLVED AND ENTRAINED GASES

## 1. TOTAL RELEASE

## 2. AVERAGE DILUTED CONCENTRATION

DURING PERIOD

## 3. PERCENT OF APPLICABLE LIMIT

## D. GROSS ALPHA RADIOACTIVITY

## 1. TOTAL RELEASE

## E. VOLUME OF WASTE RELEASED (PRIOR TO DILUTION)

## F. VOLUME OF DILUTION WATER USED DURING PERIOD

N/A=NOT APPLICABLE

N/D=NOT DETECTED

N/R=NOT REPORTED

## EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT 1970

## LIQUID EFFLUENTS-SUMMATION OF ALL RELEASES

UNIT	QUARTER 3	QUARTER 4	EST. TOTAL FY 1970, K
CI	3.30E-01	6.10E-01	
UCI/ML	2.80E-09	5.90E-09	

## A. FISSION AND ACTIVATION PRODUCTS

## 1. TOTAL RELEASE (NOT INCLUDING TRITIUM, GASES, ALPHA)

## 2. AVERAGE DILUTED CONCENTRATION DURING PERIOD

## 3. PERCENT OF APPLICABLE LIMIT

## B. TRITIUM

## 1. TOTAL RELEASE

## 2. AVERAGE DILUTED CONCENTRATION DURING PERIOD

## 3. PERCENT OF APPLICABLE LIMIT

## C. DISSOLVED AND ENRICHED GASES

## 1. TOTAL RELEASE

## 2. AVERAGE DILUTED CONCENTRATION DURING PERIOD

## 3. PERCENT OF APPLICABLE LIMIT

## D. GROSS ALPHA RADIOACTIVITY

## 1. TOTAL RELEASE

E. VOLUME OF WASTE RELEASED (PRIOR TO DILUTION) LITERS 3.26E 06 2.61E 06

F. VOLUME OF DILUTION WATER USED DURING PERIOD LITERS 3.72E 11 3.27E 11

N/A=NOT APPLICABLE

N/D=NOT DETECTED

N/R=NOT REPORTED

INSTALLATION=ARKANSAS ONE 1

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT 1979

LIQUID EFFLUENTS

NUCLEIDS RELEASED	UNIT	CONTINUOUS MODE		BATCH MODE	
		QUARTER 1	QUARTER 2	QUARTER 1	QUARTER 2
AG-110M	CI	8.34E-03	1.11E-02		
HA-133	CI	0.00E-00	0.00E-00		
HA-140	CI	1.31E-06	0.00E-00		
HE-7	CI	1.80E-04	4.16E-04		
CE-144	CI	6.87E-04	0.00E-00		
CO-57	CI	4.71E-04	1.31E-03		
CO-58	CI	8.00E-01	3.80E-01		
CO-60	CI	1.40E-01	8.44E-02		
CR-51	CI	1.70E-01	8.74E-02		
CS-134	CI	6.01E-02	1.04E-02	1.74E-2	
CS-136	CI	3.34E-06	4.24E-06		
CS-137	CI	8.35E-02	2.71E-02		
CS-138	CI	8.64E-06	0.00E-00		
CU-64	CI	0.00E-00	0.00E-00		
EU-152	CI	1.71E-05	0.00E-00		
FE-59	CI	4.85E-03	7.33E-03		
I-131	CI	1.20E-01	1.79E-02		
I-132	CI	0.00E-00	0.00E-00		
I-133	CI	6.97E-05	0.00E-00		
I-134	CI	0.00E-00	0.00E-00		
I-135	CI	0.00E-00	2.91E-06		
KR-85	CI	0.00E-00	0.00E-00		
KR-85M	CI	3.13E-03	2.14E-05		
KR-87	CI	0.00E-00	0.00E-00		
KR-98	CI	2.72E-04	0.00E-00		
LA-140	CI	8.30E-02	2.76E-03		
MA-54	CI	1.54E-02	7.89E-03		
MA-54	CI	0.00E-00	0.00E-00		
MO-99	CI	5.63E-05	4.18E-06		
MO-24	CI	8.43E-06	0.00E-00		
NA-24	CI	2.31E-02	1.41E-02		
NA-24	CI	2.64E-03	4.77E-04		
NI-63	CI	1.60E-05	0.00E-00		
NI-63	CI	2.47E-02	0.00E-00		
NI-63	CI	1.46E-03	1.46E-03		
RU-103	CI	2.20E-04	2.00E-04		
RU-106	CI	5.53E-04	3.00E-04		
SE-75	CI	2.14E-03	0.00E-00		
SR-89	CI	3.76E-04	2.56E-05		
SR-91	CI	2.62E-06	0.00E-00		
SR-92	CI	2.16E-04	3.44E-04		
W-187	CI	0.00E-00	0.00E-00		
XE-131M	CI	1.00E-01	4.55E-02		
XE-133	CI	8.40E-01	1.30E-00		
XE-133M	CI	6.40E-01	1.72E-03		
XE-135	CI	3.50E-01	3.23E-03		
ZN-65	CI	5.64E-06	1.33E-04		

N/A=NOT APPROPRIATE

N/D=NOT DETECTED

N/R=NOT REPORTED

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT 1974

LIQUID EFFLUENTS

NUCLIDES RELEASED	UNIT	CONTINUOUS MONITORING		BATCH MONITORING	
		QUARTER	QUARTER	QUARTER	QUARTER

2R-95	CI	1.50E-02	5.12E-03		
2R-97	CI	6.90E-05	1.50E-04		

9  
2  
6  
0  
7  
2  
0  
1  
0  
0  
0

N/A=NOT APPLICABLE  
N/D=NOT DETECTED  
N/R=NOT REPORTED



## EFFLUENT AND WASTE DISPOSAL SEMI-ANNUAL REPORT 1979

## LIQUID EFFLUENTS

NUCLIDES RELEASED	UNIT	CONTINUOUS MODE		BATCH MODE	
		QUARTER	QUARTER	QUARTER	QUARTER
		3	4	3	4
AG-110M	CI	6.83E-03	4.45E-03		
BA-133	CI	9.09E-06	7.48E-05		
BA-140	CI	2.26E-03	0.00E 00		
BE-7	CI	3.20E-06	0.00E 00		
CE-144	CI	2.05E-04	1.80E-05		
CO-57	CI	6.02E-04	5.13E-04		
CO-59	CI	1.00E-01	2.90E-01		
CO-60	CI	1.20E-01	1.10E-01		
CH-51	CI	1.70E-02	1.97E-02		
CS-134	CI	1.45E-02	9.45E-03		
CS-136	CI	0.00E 00	0.00E 00		
CS-137	CI	2.43E-02	1.62E-02		
CS-138	CI	3.88E-04	2.20E-05		
CU-64	CI	0.00E 00	0.00E 00		
EU-152	CI	0.00E 00	0.00E 00		
FE-59	CI	1.14E-03	5.72E-03		
I-131	CI	5.03E-03	1.40E-01		
I-132	CI	1.02E-05	0.00E 00		
I-133	CI	1.93E-05	2.26E-04		
I-134	CI	0.00E 00	0.00E 00		
I-135	CI	1.34E-05	0.00E 00		
KR-85	CI	0.00E 00	1.15E-02		
KR-85M	CI	0.70E-05	2.18E-06		
KR-87	CI	0.00E 00	1.09E-05		
KR-88	CI	3.00E-06	4.27E-06		
LA-140	CI	4.12E-04	2.52E-03		
MN-54	CI	9.78E-03	6.61E-03		
MN-55	CI	0.00E 00	0.00E 00		
MO-99	CI	2.86E-04	0.00E 00		
NA-24	CI	4.35E-05	7.11E-05		
NH-95	CI	1.20E-02	5.96E-03		
NH-97	CI	7.41E-04	5.26E-04		
NI-65	CI	0.00E 00	0.00E 00		
NP-239	CI	5.80E-07	0.00E 00		
RU-103	CI	2.14E-04	1.60E-04		
RU-106	CI	4.84E-04	1.57E-04		
SE-75	CI	1.13E-05	4.00E-05		
SH-80	CI	5.15E-04	3.18E-04		
SH-90	CI	0.00E 00	0.00E 00		
SD-91	CI	1.91E-05	0.00E 00		
SH-92	CI	1.32E-04	2.80E-04		
W-187	CI	0.00E 00	0.00E 00		
XE-131M	CI	1.58E-02	1.88E 00		
XE-133	CI	3.40E 00	1.43E 02		
XE-133M	CI	1.70E-02	5.40E-01		
XE-135	CI	8.41E-03	7.92E-02		
ZN-65	CI	1.14E-04	8.52E-05		

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INSTALLATION=ARKANSAS ONE I

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT 1979

LIQUID EFFLUENTS

NUCLIDES RELEASED	UNIT	CONTINUOUS MONITORING		MATCH MONITORING	
		QUARTER	QUARTER	QUARTER	QUARTER
		3	4	3	4
ZR-95	CI	5.42E-03	2.55E-03		
ZR-97	CI	0.00E 00	9.24E-05		

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EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT 1979  
(JULY-DECEMBER)

SOLID WASTE AND IRRADIATED FUEL SHIPMENTS

A. SOLID WASTE SHIPPED OFFSITE FOR HAZARDOUS OR DISPOSABLE (NOT IRRADIATED FUEL)  
1. TYPE OF WASTE

UNIT	6-MONTH TOTAL	EST. TOTAL FEBRUARY 8
A. SPENT RESINS, FILTER SLUDGES, EVAPORATOR BOTTOMS, ETC.	M3 CI	
B. DRY COMPRESSIBLE WASTE, CONTAMINATED EQUIPMENT, ETC.	M3 CI	
C. IRRADIATED COMPONENTS, CONTROL RODS, ETC.	M3 CI	
D. OTHER (DESCRIBE)	M3 CI	

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SOLID WASTE AND IRRADIATED FUEL SHIPMENTS

A. SOLID WASTE SHIPPED OFFSITE FOR BURIAL OR DISPOSAL (NOT IRRADIATED FUEL)  
1. TYPE OF WASTE

UNIT MONTH EST. TOTAL  
PERIOD 1970.1.1

A. SPENT RESINS, FILTER SLUDGES, EVAPORATOR BOTTOMS, ETC.	M3	CI
B. DRY COMPRESSIBLE WASTE, CONTAMINATED EQUIPMENT, ETC.	M3	CI
C. IRRADIATED COMPONENTS, CONTROL RUMS, ETC.	M3	CI
D. OTHER (DESCRIBE)	M3	CI

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