

THIS DOCUMENT CONTAINS  
POOR QUALITY PAGES

Docket No. 50-313

AUG 26 1977

DISTRIBUTION

~~Socket~~  
NRC PDR  
Local PDR  
ORB #2 Reading  
DKDavis  
RMDiggs  
RPSnaider  
CParrish  
OELD  
OI&E (3)  
DEisenhut

TJCarter  
TBAbernathy  
JRBuchanan  
ACRS (16)

Licensee

Gentlemen:

The NRC is presently preparing a summary of radioactive effluents released from commercial nuclear power plants during 1976. The report will be similar to NUREG-0218, "Radioactive Materials Released from Nuclear Power Plants (1975)".

In order to verify the accuracy of the information before its publication, a draft copy of the data with respect to your plant(s) is enclosed for your review. We would appreciate receiving your comments and suggested changes by September 16, 1977. If there are changes to the enclosure that result from other than our transcription error, we request that you file an amendment to your semi-annual reports which includes a reason for the change. Also, please provide answers to any questions attached to or on the enclosed data sheets, the name and telephone number of the individual we should contact in the event that we find it necessary to clarify your comments in answer to this request. Please provide a written response even if no changes to the data are required. Responses should be addressed to:

U. S. Nuclear Regulatory Commission  
Office of Management Information & Program Control  
Operating Data Branch, 12105 MNBB  
Washington, D. C. 20555

Any questions should be referred to T. R. Decker (301-492-7735). A copy of the final report will be sent to you.

Sincerely,

*Don K Davis*

Don K. Davis, Acting Chief  
Operating Reactors Branch #2  
Division of Operating Reactors

Enclosure:  
Draft Copy of Data

cc w/enclosure:  
See next page

MA 4  
60

OFFICE	DOR:ORB #2	DOR:ORB #3	DOR:ORB #2		
SURNAME	RPSnaider:ro	CParrish	DKDavis		
DATE	8/26/77	8/26/77	8/26/77		

8004210 677

R

Arkansas Power & Light Company - 2 -

August 26, 1977

cc w/enclosure:  
Horace Jewell, Esquire  
Hause, Holms & Jewell  
1550 Tower Building  
Little Rock, Arkansas 72201

Phillip K. Lyon, Esquire  
Hause, Holms & Jewell  
1550 Tower Building  
Little Rock, Arkansas 72201

Mr. Donald Rueter  
Manager, Licensing  
Arkansas Power & Light Company  
Post Office Box 551  
Little Rock, Arkansas 72201

Arkansas Polytechnic College  
Russellville, Arkansas 72801

FACILITY: ARKANSAS I  
 TYPE: PWR  
 LOCATION: 6 MI WNW RUSSELLVILLE AR  
 COOLING WATER SOURCE: DARDENELLE RESERVOIR

DOCKET NO: 50-313  
 LICENSED POWER (MWT): 2568.0 0.0 0.0  
 INITIAL CRITICALITY: 08/06/74

OPERATION  
 -----

GROSS THERMAL GENERATION	12073746.0	MWTT
NET ELECTRICAL	3687946.0	MWHE
THERMAL CAPACITY FACTOR (DURING COMMERCIAL OPERATION)	53.5	PER CENT

SUMMARY OF EFFLUENTS  
 -----

AIRBORNE

A) TOTAL NOBLE GASES	5.69E+03	CURIES
B) TOTAL I-131	4.07E-02	CURIES
C) TOTAL HALOGENS (INCLUDING I-131)	4.08E-02	CURIES
D) TOTAL PARTICULATES	1.66E-02	CURIES
E) TOTAL TRITIUM	6.74E+00	CURIES

LIQUID

A) TOTAL MIXED FISSION AND ACTIVATION PRODUCTS	1.31E+01	CURIES
B) TOTAL TRITIUM	2.13E+02	CURIES
C) DISSOLVED NOBLE GASES	9.00E+01	CURIES
D) VOLUME OF LIQUID WASTE RELEASED	9.62E+06	LITERS
E) VOLUME OF DILUTION WATER	9.19E+11	LITERS

SOLID WASTE

A) VOLUME	NR	CUBIC METERS
B) ACTIVITY	NR	CURIES
C) NUMBER OF ELEMENTS	NR	

\* IF SUMMARY  
 VALUES ARE  
 DIFFERENT THAN  
 THE SUM OF  
 ISOTOPES PLEASE  
 EXPLAIN DISCREPANCY.

AIRBORNE EFFLUENTS (CURIES)

---

NOBLE GAS

AR-41	2.11E+00
KR-85	3.95E+01
KR-85M	3.85E+00
KR-87	3.46E-01
KR-88	8.71E-01
XE-131M	6.58E+00
XE-133	5.16E+03
XE-133M	3.15E+00
XE-135	1.14E+02
XE-135M	3.65E+02

HALOGENS

I-131	4.07E-02
I-133	8.07E-05
I-135	ND

PARTICULATES

CO-58	3.58E-04
SR-89	1.03E-05
SR-90	5.79E-06
ZR-95	1.87E-06
CS-134	2.07E-05
CS-137	1.62E-02
BA/LA-140	ND

TRITIUM

H-3	6.74E+00
-----	----------

LIQUID EFFLUENTS (CURIES)

KR-85	2.89E-03
KR-85M	1.63E-01
KR-87	2.63E-03
KR-88	1.16E-05
XE-131M	2.71E-01
XE-133	8.88E-01
XE-133M	5.98E-01
XE-135	1.66E-01
I-131	3.75E+00
I-132	5.60E-08
I-133	1.11E-02
I-134	1.59E-03
I-135	3.84E-04
BE-7	1.34E-02
NA-24	2.64E-03
CM-51	3.48E-01
MN-53	3.52E-01
MN-56	3.05E-05
CO-57	4.24E-02
CU-58	3.39E+00
FE-59	4.57E-02
CU-60	5.84E-01
CU-64	2.68E-03
NI-65	ND
ZN-65	1.72E-03
SE-75	2.59E-03
SR-86	8.93E-03
SR-90	ND
SR-91	3.09E-04
SR-92	6.56E-04
ZN-95	4.54E-02
ND-95	7.62E-02
7-97	1.86E-03
ND-97	9.32E-04
ND-99	5.37E-03
RU-103	ND
RH-106	2.29E-05
AG-110M	2.00E-01
CS-134	9.81E-01
CS-136	9.68E-03
CS-137	3.17E+00
CS-138	1.23E-05
BA-140	6.03E-05
BA/LA-140	4.97E-04
CE-144	ND
EU-152	ND
M-187	2.12E-04
NP-239	8.61E-07
H-3	2.13E+02

TRITIUM