

Docket No. 50-10, 50-237, 50-249,  
50-254, 50-265

**DISTRIBUTION**

~~Dockets 50-10/237/249/254/265~~  
NRC PDR 50-10/237/249/254/265  
Local DPR (2)

DKDavis  
RMDiggs  
OELD  
OI&E (3)  
RBevan  
PO'Connor  
CParrish  
DEisenhut  
TJCarter  
TBABernathy  
JRSuchanan  
ACRS (16)

Licensee

AUG 26 1977

Gentlemen:

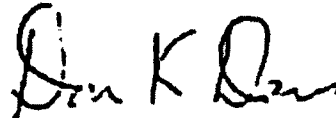
The NRC is presently preparing a summary of radioactive effluents released from commercial nuclear power plants during 1976. The report will be similar to NUREG-0218, "Radioactive Materials Released from Nuclear Power Plants (1975)".

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 MH88  
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, Acting Chief  
Operating Reactors Branch #2  
Division of Operating Reactors

Enclosure:  
Draft Copy of Data

cc w/enclosure:  
See next page

000000	DOR:ORB #2	DOR:ORB #2	DOR:ORB #3	DOR:ORB #2		
000000	RBevan: Fo	PO'Connor	CParrish Cg	DKDavis		
000000	8/16/77	8/16/77	8/26/77			

8009100755



August 26, 1977

cc w/enclosure:

Mr. Charles Whitmore  
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Moline Public Library  
504 - 17th Street  
Moline, Illinois 61265

Morris Public Library  
604 Liberty Street  
Morris, Illinois 60451

FACILITY: DRESDEN I  
 TYPE: NWR  
 LOCATION: 14 MI SW JOLIET IL  
 COOLING WATER SOURCE: KAWKAKEE RIVER

DOCKET NO: 90-10  
 LICENSED POWER (MWT): 700.0 0.0 0.0  
 INITIAL CRITICALITY: 10/19/59

OPERATION

GROSS THERMAL GENERATION	3424349.0	MWT
NET ELECTRICAL	953015.5	MWE
THERMAL CAPACITY FACTOR (DURING COMMERCIAL OPERATION)	99.7	PER CENT

SUMMARY OF EFFLUENTS

AIRBORNE

A1	TOTAL NOBLE GASES	4.52E+05	CURIES
B1	TOTAL I-131	3.70E-01	CURIES
C1	TOTAL HALOGENS INCLUDING I-131I	2.34E+00	CURIES
D1	TOTAL PARTICULATES	4.67E-01	CURIES
E1	TOTAL TRITIUM	6.13E+01	CURIES

LIQUID

A1	TOTAL MIXED FISSION AND ACTIVATION PRODUCTS	3.57E-01	CURIES
B1	TOTAL TRITIUM	2.40E-02	CURIES
C1	DISSOLVED NOBLE GASES	0.0	CURIES
D1	VOLUME OF LIQUID WASTE RELEASED	1.99E+06	LITERS
E1	VOLUME OF DILUTION WATER	2.90E+11	LITERS

SOLID WASTE

A1	VOLUME	SHOWN WITH	CUBIC METERS
B1	ACTIVITY	OTHER UNIT	CURIES
C1	NUMBER OF SHIPMENTS		

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

AIRBORNE EFFLUENTS (CURIES)

NOBLE GAS

KR-85M	1.87E+04
KR-87	3.80E+04
KR-88	3.10E+04
XE-133	1.91E+04
XE-135	7.00E+04
XE-135M	9.40E+04
XE-138	1.96E+05

HALOGENS

I-131	3.70E-01
I-133	1.23E+00 ←
I-135	7.40E-01

PARTICULATES

MY-94	7.70E-03
CU-90	1.14E-02
CU-60	7.97E-02
SR-89	2.00E-01
SR-90	1.09E-03
I-131	1.13E-02
CS-134	3.17E-03
CS-137	1.03E-02
CE-141	2.60E-04
BA-140	5.10E-02

TRITIUM

H-3	6.13E+01
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LIQUID EFFLUENTS (CURIES)

MY-56	2.71E-02
CU-58	2.07E-02
FE-59	3.70E-03
CU-60	2.54E-01
SR-69	7.47E-03
SR-70	4.60E-04
ZR-95	7.80E-04
HA-95	7.70E-01
RU-103	3.60E-03
CS-134	7.77E-03
CS-137	7.07E-02
CE-141	2.70E-03
CE-144	1.60E-03

TITANIUM

H-3	2.40E-02
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FACILITY: DRESDEN 261

DOCKET NO: 50-237/269

TYPE: BWR

LICENSED POWER (MW):

2527.0

2527.0

0.0

LOCATION: 16 MI SW JULIET IL

INITIAL CRITICALITY:

01/07/70

01/31/71

COOLING WATER SOURCE: KAWAKEE & DES PLAINES RIVERS

OPERATION

POOR ORIGINAL

GROSS THERMAL GENERATION

14218659.0

13233238.0

MWT

NET ELECTRICAL

4371553.7

4034541.3

MWE

THERMAL CAPACITY FACTOR  
(DURING COMMERCIAL OPERATION)

64.1

59.6

PER CENT

SUMMARY OF EFFLUENTS

AIRBORNE

A) TOTAL NUCLE GASES

3.23E+04

CURIES

B) TOTAL I-131

9.79E-01

CURIES

C) TOTAL HALOGENS (INCLUDING I-131)

1.27E+01

CURIES

D) TOTAL PARTICULATES

4.38E+00

CURIES

E) TOTAL TRITIUM

1.37E+07

CURIES

LIQUID

A) TOTAL MIXED FISSION AND ACTIVATION PRODUCTS

1.20E+00

CURIES

B) TOTAL TRITIUM

1.97E+01

CURIES

C) DISSOLVED NUCLE GASES

0.0

CURIES

D) VOLUME OF LIQUID WASTE RELEASED

5.20E+06

LITERS

E) VOLUME OF DILUTION WATER

4.08E+11

LITERS

SOLID WASTE

A) VOLUME

7.10E+03

CUBIC METERS

B) ACTIVITY

4.21E+03

CURIES

C) NUMBER OF SHIPMENTS

9.87E+02

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

ANNUAL EFFLUENTS (CONTS)

POOR ORIGINAL

NOBLE GAS

KR-85M	2.70E+03
KR-87	1.06E+03
KR-88	2.87E+03
XE-133	7.37E+03
XE-135	8.91E+03
XE-135M	1.70E+03
XE-138	7.70E+03

HALOGENS

I-131	9.77E-01
I-133	4.80E+00
I-135	7.27E+00

PARTICULATES

CM-51	7.75E-02
MY-54	1.57E-02
FE-59	1.40E-03
CO-59	7.80E-03
CU-60	1.71E-01
ZH-65	4.70E-04
SR-69	1.67E+00
SR-70	3.41E-02
ZK-75	1.40E-03
MI-75	7.50E-03
MI-79	8.10E-03
TC-79M	8.90E-03
KU-103	1.70E-03
I-131	4.47E-01
CS-134	7.59E-03
CS-137	4.54E-02
CE-141	1.64E-02
CE-144	3.27E-02
RA-140	1.77E+00
LA-140	8.20E-02

TRITIUM

H-3	1.37E+02
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POOR ORIGINAL

LIQUID EFFLUENTS (CURIES)

I-131	4.51E-01
MU-54	1.47E-01
CO-58	2.78E-02
CO-60	4.19E-01
SR-07	6.87E-03
SM-70	1.55E-03
ZN-75	1.10E-02
NO-75	1.80E-02
RU-103	7.50E-03
CS-134	5.51E-02
CS-137	2.77E-02
CE-141	6.70E-03

TITANIUM

TI-3	1.97E+01
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POOR ORIGINAL

PLANT: QUAD CITIES 102  
TYPE: SWR  
LOCATION: 20 MI NE MOBILE IL  
COOLING WATER SOURCE: MISSISSIPPI RIVER

DUCKET NO: 50-254/265

LICENSED POWER (MW): 2511.0 2511.0 0.0  
INITIAL CRITICALITY: 10/10/71 04/26/72

OPERATION

GROSS THERMAL GENERATION	11410561.0	14440096.0	MWTT
NET ELECTRICAL	3373062.0	4304686.0	MWHE
THERMAL CAPACITY FACTOR (DURING COMMERCIAL OPERATION)	51.8	65.5	PER CENT

SUMMARY OF EFFLUENTS

AIRBORNE

A) TOTAL NOBLE GASES	3.38E+04	CURIES
B) TOTAL I-131	7.89E-01	CURIES
C) TOTAL HALOGENS (INCLUDING I-131)	8.41E+00	CURIES
D) TOTAL PARTICULATES	1.44E-01	CURIES
E) TOTAL TRITIUM	2.97E+02	CURIES

LIQUID

A) TOTAL HEAVY FISSION AND ACTIVATION PRODUCTS	5.67E+00	CURIES
B) TOTAL TRITIUM	2.34E+01	CURIES
C) DISSOLVED NOBLE GASES	ND	CURIES
D) VOLUME OF LIQUID WASTE RELEASED	2.23E+07	LITERS
E) VOLUME OF DILUTION WATER	7.37E+11	LITERS

SOLID WASTE

A) VOLUME	6.26E+02	CUBIC METERS
B) ACTIVITY	1.67E+03	CURIES
C) NUMBER OF SHIPMENTS	2.81E+02	

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

POOR ORIGINAL

ANNUAL EFFLUENTS (CURIES)

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WIRE GAS

KR-85	7.49E-01
KR-85M	4.07E+03
KR-87	6.10E+01
KR-88	2.05E+03
XE-133	2.51E+04
XE-135	7.36E+03
XE-135M	1.05E+00
XE-138	ND

HALOGENS

I-131	7.89E-01
I-133	5.47E+00
I-135	2.20E+00

PARTICULATES

CX-51	2.14E-02
MY-54	1.13E-03
CU-58	1.15E-03
CU-60	2.79E-02
ZN-65	1.22E-03
SR-87	2.60E-02
SR-90	1.81E-04
ZA-75	8.55E-05
NH-75	1.61E-04
RU-103	2.71E-03
I-131	4.50E-02
CS-134	5.19E-03
CS-136	4.50E-04
CS-137	7.50E-03
CF-141	7.61E-04
AG-110M	7.61E-05
PA-140	1.20E-02
LA-140	4.42E-02
UNIDENTIFIED	6.31E-02

TRITIUM

H-3	2.97E+02
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POOR ORIGINAL

LIQUID EFFLUENTS (CONT)

XC-133	ND
XE-135	ND
I-131	2.56E-01
CM-51	4.51E-02
MY-54	1.14E-01
CO-5A	5.23E-02
FC-57	7.91E-03
CI-60	7.52E-01
ZH-65	3.03E-02
SR-77	1.47E-02
SA-70	1.81E-03
SR-71	ND
ZH-95	3.01E-04
TC-79M	7.17E-01
AS-110M	8.55E-04
CS-134	7.25E-01
CS-136	5.51E-02
CS-137	1.32E+00
NA-140	1.51E-01
LA-140	7.85E-02
CE-141	8.74E-04
UNIDENTIFIED	7.52E+00
INITIUM	
H-3	2.34E+01