

Docket No. 50-282, 50-306,  
50-263

AUG 26 1977

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

Enclosure:  
Draft Copy of Data

cc w/enclosure:  
See next page

See 50-282 for concurrences

OFFICE >	DOR:ORB #2	DOR:ORB #2	DOR:ORB #3	DOR:ORB #2		
SURNAME >	RPSnaider	MGrotenhuis	CParrish	DKDavis		
DATE >	/ /	/ /	/ /	/ /		

DISTRIBUTION

~~Dockets 50-282/306/263~~

NRC PDR 50-282/306/263

Local PDR

ORB #2 Reading

DKDavis

RPDiggs

RPSnaider

MGrotenhuis

CParrish

OELD

OIE (3)

DEisenhut

TJCarter

TBABernathy

JRBuchanan

ACRS (16)

August 26, 1977

cc w/enclosure:

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The Environmental Conservation Library  
Minneapolis Public Library  
300 Nicollet Mall  
Minneapolis, Minnesota 55401

FACILITY: PRAIRIE ISLAND 1G2  
 TYPE: PWR  
 LOCATION: 26 MI SE MINNEAPOLIS MN  
 COOLING WATER SOURCE: MISSISSIPPI RIVER

DOCKET NO: 50-282/306

LICENSED POWER (MWT): 1650.0 1650.0 0.0  
 INITIAL CRITICALITY: 12/01/73 12/17/74

OPERATION

GROSS THERMAL GENERATION	10621439.0	9959459.0	MWHT
NET ELECTRICAL	32688378.0	2660701.0	MWHE
THERMAL CAPACITY FACTOR (DURING COMMERCIAL OPERATION)	73.3	68.7	PER CENT

SUMMARY OF EFFLUENTS

AIRBORNE

A) TOTAL NOBLE GASES	<3.56E+03	CURIES
B) TOTAL I-131	1.11E-02	CURIES
C) TOTAL HALOGENS (INCLUDING I-131)	<2.92E-02	CURIES
D) TOTAL PARTICULATES	<3.63E-03	CURIES
E) TOTAL TRITIUM	3.31E+01	CURIES

LIQUID

A) TOTAL MIXED FISSION AND ACTIVATION PRODUCTS	<2.54E-01	CURIES
B) TOTAL TRITIUM	1.92E+03	CURIES
C) DISOLVED NOBLE GASES	<2.21E+00	CURIES
D) VOLUME OF LIQUID WASTE RELEASED	3.34E+08	LITERS
E) VOLUME OF DILUTION WATER	3.23E+11	LITERS

SOLID WASTE

A) VOLUME	2.65E+02	CUBIC METERS
B) ACTIVITY	6.53E+01	CURIES
C) NUMBER OF SHIPMENTS	1.40E+01	

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

AIRBORNE EFFLUENTS (CURIES)

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NOBLE GAS

AR-41	<2.48E+01
KR-85	<1.18E+01
KR-85M	<3.40E+01
KR-87	<6.15E+01
KR-88	<1.27E+03
XE-131M	<4.49E+02
XE-133	<1.46E+03
XE-133M	<7.90E+00
XE-135	<1.77E+02
XE-135M	<2.94E+01
XE-138	<3.93E+01

HALOGENS

I-131	1.11E-02
I-133	<7.74E-03
I-135	<1.03E-02

PARTICULATES

NA-24	<1.02E-04
CO-57	<3.66E-04
CO-58	<1.68E-04
CO-60	<9.89E-05
RH-88	<1.05E-02
SR-89	<2.91E-07
SR-90	<2.91E-07
NB/ZR-95	<1.34E-04
CD-109	<6.54E-05
CS-134	<9.50E-05
CS-137	<9.35E-05
CE-144	<1.17E-03
SB-124	<1.37E-04
BA/LA-140	<2.08E-04
SR-85	<1.09E-03

TRITIUM

H-3	3.31E+01
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PLEASE EXPLAIN REASON FOR USING  
UNUSUALLY LARGE NUMBER OF LESS THAN NOTATIONS

LIQUID EFFLUENTS (CURIES)

KR-85	<3.07E-03
KR-85M	<4.22E-03
XE-131M	<2.75E-01
XE-133	<1.89E+00
XE-133M	<1.03E-02
XE-135	<2.38E-02
I-131	<7.71E-03
NA-24	<5.88E-03
CR-51	<7.32E-03
MN-54	<1.09E-02
CU-58	<1.80E-02
FE-59	<2.98E-02
CU-60	<1.72E-02
ZN-65	<2.81E-02
SR-89	<1.52E-03
SR-90	<1.52E-03
ZR/NB-95	<1.93E-02
MO-99	<1.11E-02
AG-110M	<9.24E-03
SO-124	<1.31E-02
CS-134	<1.20E-02
CS-136	<4.32E-03
CS-137	<1.06E-02
BA/LA-140	<2.36E-02
W-187	<3.70E-03
SR-85	<1.68E-02
UNIDENTIFIED	2.10E-03
TRITIUM	
H-3	1.92E+03

FACILITY: MONTICELLO  
 TYPE: BWR  
 LOCATION: 23 MI SE ST. CLOUD MN  
 COOLING WATER SOURCE: MISSISSIPPI RIVER

DOCKET NO: 50-263  
 LICENSED POWER (MWT): 1670.0 0.0 0.0  
 INITIAL CRITICALITY: 12/10/70

OPERATION

GROSS THERMAL GENERATION	12343438.0	MWHT
NET ELECTRICAL	3986380.0	MWHE
THERMAL CAPACITY FACTOR (DURING COMMERCIAL OPERATION)	84.1	PER CENT

SUMMARY OF EFFLUENTS

AIRBORNE

A) TOTAL NOBLE GASES	1.14E+04	CURIES
B) TOTAL I-131	1.21E-01	CURIES
C) TOTAL HALOGENS (INCLUDING I-131)	<1.02E+00	CURIES
D) TOTAL PARTICULATES	<2.74E-02	CURIES
E) TOTAL TRITIUM	5.02E+01	CURIES

LIQUID

A) TOTAL MIXED FISSION AND ACTIVATION PRODUCTS	0.0	CURIES
B) TOTAL TRITIUM	0.0	CURIES
C) DISOLVED NOBLE GASES	0.0	CURIES
D) VOLUME OF LIQUID WASTE RELEASED	0.0	LITERS
E) VOLUME OF DILUTION WATER	0.0	LITERS

SOLID WASTE

A) VOLUME	2.85E+02	CUBIC METERS
B) ACTIVITY	3.80E+03	CURIES
C) NUMBER OF SHIPMENTS	4.30E+01	

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

AIRBORNE EFFLUENTS (CURIES)

NOBLE GAS

KR-83M	2.03E+01
KR-85	2.69E+03
KR-85M	1.49E+01
KR-87	9.83E+01
KR-88	5.11E+01
KR-89	2.07E+03
KR-90	7.08E+01
XE-131M	4.91E+00
XE-133	6.83E+02
XE-133M	2.91E+01
XE-135	1.43E+02
XE-135M	1.57E+02
XE-137	2.70E+03
XE-138	2.50E+03
XE-139	2.11E+02

HALOGENS

I-131	1.21E-01
I-133	6.21E-01
I-135	<2.76E-01

PARTICULATES

CR-51	<2.63E-03
MN-54	<8.68E-05
FE-59	<1.32E-04
CO-57	<3.67E-05
CU-58	<7.11E-05
CO-60	<9.61E-04
ZN-65	<1.38E-03
SR-89	6.20E-04
SR-90	8.96E-05
ZR-95	<1.08E-04
NB-95	<2.08E-04
RU-103	<5.38E-04
CS-134	<3.23E-04
CS-136	<2.37E-04
CS-137	1.12E-03
CE-141	<8.61E-05
CE-144	<3.61E-04
SB-124	<1.10E-04
BA-140	2.12E-02
SB-126	<7.42E-05
ND-147	<1.95E-04

TRITIUM

H-3	5.02E+01
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PLEASE EXPLAIN USE OF LESS THAN NOTATION.  
UNUSUALLY LARGE NUMBER OF ISOTOPES WITH  
THAT NOTATION.

LIQUID EFFLUENTS (CURIES)