

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

AUG 26 1977

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Gentlemen:

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~~Dockets 50-282/306/263~~
 NRC PDR 50-282/306/263
 Local PDR
 ORB #2 Reading MEisenhut
 DKDavis TJCarter
 RMDiggs TBABernathy
 RPSnaider JKBuchanan
 MGrotenhuis PCIS (16)
 CParrish
 OELD
 OI&E (3)

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	/ /	/ /	/ /	/ /		

9106100535 770826
PDR ADDCK 05000263
PDR

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 1C2
 TYPE: PWR
 LOCATION: 26 MI SE MINNEAPOLIS MN
 COOLING WATER SOURCE: MISSISSIPPI RIVER
 DOCKET NO: 50-282/306
 LICENSED POWER (MWT): 1650.0
 INITIAL CRITICALITY: 12/01/73
 1650.0
 12/17/74
 0.0

OPERATION

 GROSS THERMAL GENERATION 10621439.0 MMHT
 NET ELECTRICAL 32688378.0 MMHE
 THERMAL CAPACITY FACTOR 73.1 PER CENT
 (DURING COMMERCIAL OPERATION) 68.7

SUMMARY OF EFFLUENTS

AIRBORNE			
A)	TOTAL NODLE 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	C, P, S
B)	TOTAL TRITIUM	1.92E+03	C, E:
C)	DISSOLVED 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)

NOBLE GASES

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	<1.91E+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	<3.65E-04
CO-58	<1.68E-04
LD-60	<9.87E-05
RN-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	<1.07E-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-11M	<2.75E-01
XE-133	<1.87E+00
XF-133M	<1.03E-02
XE-135	<2.38E-02
I-131	<7.71E-03
NA-24	<5.89E-03
CR-51	<7.37E-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
SH-89	<1.52E-03
SH-90	<1.52E-03
ZR/NB-95	<1.93E-02
MO-99	<1.11E-02
AG-110M	<9.24E-03
SD-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	<1.69E-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) DISSOLVED 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

CH-51	<7.63E-03
MN-54	<8.68E-05
FE-59	<1.32E-04
CO-57	<3.67E-05
CO-58	<7.11E-05
CO-60	<9.61E-04
ZN-65	<1.18E-03
SR-89	6.20E-04
SR-90	8.96E-05
ZR-95	<1.08E-04
NU-95	<2.08E-04
RU-103	<5.38E-04
CS-134	<1.23E-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
NO-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)